

Publications

January 2015 - September 2016

Publications

Articles, Books and Inbooks

Abba, A., Bonaventur, L., Nini, M., and Restelli, M.: Dynamic models for Large Eddy Simulation of compressible flows with a high order DG method. *Computers & Fluids* 122, 209-222 (2015).

Abiteboul, J., Görler, T., Jenko, F., Told, D., and ASDEX Upgrade Team: Global electromagnetic simulations of the outer core of an ASDEX Upgrade L-mode plasma. *Physics of Plasmas* 22, 092314 (2015).

Adamek, J., Müller, H. W., Silva, C., Schrittwieser, R., Ionita, C., Mehlmann, F., Costea, S., Horacek, J., Kurzan, B., Bilkova, P., Böhm, P., Aftanas, M., Vondracek, P., Stöckel, J., Panek, R., Fernandes, H., and Figueiredo, H.: Profile measurements of the electron temperature on the ASDEX Upgrade, COMPASS, and ISTTOK tokamak using Thomson scattering, triple, and ballpen probes. *Review of Scientific Instruments* 87, 043510 (2016).

Agostinetti, P., Giacomin, M., Serianni, G., Veltri, P., Bonomo, F., and Schiesko, L.: Preliminary results concerning the simulation of beam profiles from extracted ion current distributions for mini-STRIKE. *Review of Scientific Instruments* 87, 02B913 (2016).

Aguiam, D. E., Silva, A., Bobkov, V., Carvalho, P. J., Carvalho, P. F., Cavazzana, R., Conway, G. D., D'Arcangelo, O., Fattorini, L., Faugel, H., Fernandes, A., Fünfgelder, H., Goncalves, B., Guimarais, L., De Masi, G., Meneses, L., Noterdaeme, J.-M., Pereira, R. C., Rocchi, G., Santos, J. M., Tuccillo, A. A., Tudisco, O., and ASDEX Upgrade Team: Implementation of the new multichannel X-mode edge density profile reflectometer for the ICRF antenna on ASDEX Upgrade. *Review of Scientific Instruments* 87, 11E722 (2016).

Aho-Mantila, L., Bonnin, X., Coster, D. P., Lowry, C., Wischmeier, M., Brezinsek, S., Federici, G., ASDEX Upgrade Team, and JET-EFDA Contributors: Model-based radiation scalings for the ITER-like divertors of JET and ASDEX Upgrade. *Journal of Nuclear Materials* 463, 546-550 (2015).

Äkäslompolo, S., Bonheure, G., Tardini, G., Kurki-Suonio, T., and ASDEX Upgrade Team: Adjoint Monte Carlo simulation of fusion product activation probe experiment in ASDEX Upgrade tokamak. *Journal of Instrumentation* 10, P10012 (2015).

Albajar, F., Bornatici, M., and Engelmann, F.: EC Radiative Transport and Losses in DEMO-like High-temperature Plasmas. *EPJ Web of Conferences* 87, 01009 (2015).

Albers, C. J., Kardaun, O. J. W. F., and Schaafsma, W.: Assigning probabilities to hypotheses in the context of a

binomial distribution. *Brazilian Journal of Probability and Statistics* 30, 127-144 (2016).

Aledda, R., Cannas, B., Fanni, A., Pau, A., Sias, G., and ASDEX Upgrade Team: Improvements in disruption prediction at ASDEX Upgrade. *Fusion Engineering and Design* 96-97, 698-702 (2015).

Aleynikova, K., Huijsmans, G. T. A., and Aleynikov, P.: Linear MHD stability analysis of post-disruption plasmas in ITER. *Plasma Physics Reports* 42, 486-494 (2016).

Allouche, A., Oberkofler, M., Köppen, M., and Linsmeier, Ch.: DFT studies of hydrogen retention in beryllium nitride. *International Journal of Hydrogen Energy* 40, 16419-16428 (2015).

Alonso, J. A., Velasco, J. L., Calvo, I., Estrada, T., Fontecaba, J. M., García-Regaña, J. M., Geiger, J., Landreman, M., McCarthy, K. J., Medina, F., Van Milligen, B. P., Ochando, M. A., Parra, F. I., TJ-II Team, and W7-X Team: Parallel impurity dynamics in the TJ-II stellarator. *Plasma Physics and Controlled Fusion* 58, 074009 (2016).

Alpers, A., Gritzmann, P., Moseev, D., and Salewski, M.: 3D particle tracking velocimetry using dynamic discrete tomography. *Computer Physics Communications* 187, 130-136 (2015).

Andreeva, T., Bräuer, T., Bykov, V., Egorov, K., Endler, M., Fellinger, J., Kißlinger, J., Köppen, M., and Schauer, F.: Tracking of the magnet system geometry during Wendelstein 7-X construction to achieve the designed magnetic field. *Nuclear Fusion* 55, 063025 (2015).

Angioni, C.: Gyrokinetic study of the impact of the electron to ion heating ratio on the turbulent diffusion of highly charged impurities. *Physics of Plasmas* 22, 102501 (2015).

Angioni, C., Casson, F. J., Mantica, P., Pütterich, T., Valisa, M., Belli, A., Bilato, R., Giroud, C., Helander, P., and JET Contributors: The impact of poloidal asymmetries on tungsten transport in the core of JET H-mode plasmas. *Physics of Plasmas* 22, 055902 (2015).

Angioni, C., Mantica, P., Naulin, V., Bourdelle, C., Hidalgo, C., Maggi, C. F., Rice, J. E., Sharapov, S. E., and Participants to the 19th Joint EU-US Transport Task Force Workshop: Summary of the 19th Joint EU-US Transport Task Force Workshop. *Nuclear Fusion* 55, 067001 (2015).

Arbeiter, F., Bachmann, C., Chen, Y., Ilic, M., Schwab, F., Sieglin, B., and Wenninger, R.: Thermal-hydraulics of helium cooled First Wall channels and scoping investigations on performance improvement by application of ribs and mixing

- devices. *Fusion Engineering and Design* 109-111, Pt. B, 1123-1129 (2016).
- Arefiev, A. V., Du Toit, E. J., Köhn, A., Holzhauer, E., Shevchenko, V. F., and Vann, R. G. L.: Kinetic simulations of X-B and O-X-B mode conversion. *AIP Conference Proceedings* 1689, 090003 (2015).
- Arion, T., and Hergenhahn, U.: Coincidence spectroscopy: Past, present and perspectives. *Journal of Electron Spectroscopy and Related Phenomena* 200, 222-231 (2015).
- Arnichand, H., Citrin, J., Hacquin, S., Sabot, R., Krämer-Flecken, A., Garbet, X., Bourdelle, C., Bottreau, C., Clairet, F., Giacalone, J. C., Guimaraes-Filho, Z. O., Guirlet, R., Horning, G., Lebschy, A., Lotte, P., Maget, P., Medvedeva, A., Molina, D., Nikolaeva, V., Prisiazhniuk, D., Tore Supra Team, and ASDEX Upgrade Team: Identification of trapped electron modes in frequency fluctuation spectra. *Plasma Physics and Controlled Fusion* 58, 014037 (2016).
- Arnoux, G., Coenen, J., Bazylev, B., Corre, Y., Matthews, G. F., Balboa, I., Clever, M., Dejarnac, R., Devaux, S., Eich, T., Gauthier, E., Frassinetti, L., Horacek, J., Jachmich, S., Kinna, D., Marsen, S., Mertens, P., Pitts, R. A., Rack, M., Sergienko, G., Sieglin, B., Stamp, M., Thompson, V., and JET EFDA Contributors: Thermal analysis of an exposed tungsten edge in the JET divertor. *Journal of Nuclear Materials* 463, 415-419 (2015).
- Arredondo Parra, R., Moreno Quicios, R., Plöckl, B., Birkenmeier, G., Herrmann, A., Kocsis, G., Laggner, F. M., Lang, P. T., Lunt, T., Macian-Juan, R., Rohde, V., Sellmair, G., Szepesi, T., Wolfrum, E., Zeidner, W., Neu, R., and ASDEX Upgrade Team: A compact lithium pellet injector for tokamak pedestal studies in ASDEX Upgrade. *Review of Scientific Instruments* 87, 023508 (2016).
- Askinazi, L. G., Afanasyev, V. I., Altukhov, A. B., Bakhariev, N. N., Belokurov, A. A., Bulanin, V. V., Bykov, A. S., Chernyshev, F. V., Chugunov, I., Dyachenko, V. V., Esipov, L. A., Gin, D., Goncharov, P. R., Gurevich, A. D., Gusakov, E. Z., Gusev, V. K., Heuraux, S., Iblyaminova, A. D., Irzak, M. A., Kantor, M. Y., Kaveeva, E. G., Kiviniemi, T., Khilkevitch, E. M., Khitrov, S. A., Khromov, N. A., Kornev, V. A., Koupienko, D. V., Kurskiv, G. S., Lashkul, S. I., Lebedev, S. V., Leerink, S., Melnik, A. D., Minaev, V. B., Mironov, M. I., Miroshnikov, I. V., Mukhin, E. E., Nesenevich, V. G., Niskala, P., Novokhatsky, A. N., Patrov, M. I., Perevalov, A. A., Petrov, M. P., Petrov, A. V., Petrov, Y. V., Popov, A. Y., Rozhansky, V. A., Rozhdestvenskiy, V. V., Sakharov, N. V., Saveliev, A. N., Senichenkov, I. Y., Sergeev, V. Y., Shchegolev, P. B., Shatalin, S. V., Shcherbinin, O. N., Shevelev, A. E., Sidorov, A. V., Silva, F. da, Smirnov, A. I., Stepanov, A. Y., Sysoeva, E. V., Teplova, N. V., Tolstyakov, S. Y., Tukachinsky, A. S., Varfolomeev, V. I., Vekshina, E. O., Vild-junas, M. I., Voronin, A. V., Voskoboinikov, S. P., Wagner, F., Yashin, A. Y., and Zhuravlev, N. A.: Fusion Research in Ioffe Institute. *Nuclear Fusion* 55, 104013 (2015).
- Astfalk, P., Görler, T., and Jenko, F.: DSHARK: A dispersion relation solver for obliquely propagating waves in bi-kappa-distributed plasmas. *Journal of Geophysical Research: Space Physics* 120, 7107-7120 (2015).
- Astfalk, P., and Jenko, F.: Parallel and oblique firehose instability thresholds for bi-kappa distributed protons. *Journal of Geophysical Research: Space Physics* 121, 2842-2852 (2016).
- Asunta, O., Govenius, J., Budny, R., Gorelenkova, M., Tardini, G., Kurki-Suonio, T., Salmi, A., Sipilä, S., ASDEX Upgrade Team, and JET EFDA Contributors: Modelling neutral beams in fusion devices: Beamlet-based model for fast particle simulations. *Computer Physics Communications* 188, 33-46 (2015).
- Auriemma, F., Lorenzini, R., Agostini, M., Carraro, L., De Masi, G., Fassina, A., Gobbin, M., Martines, E., Innocente, P., Scarin, P., Schneider, W., and Zuin, M.: Characterization of particle confinement properties in RFX-mod at a high plasma current. *Nuclear Fusion* 55, 043010 (2015).
- Ayllon-Guerola, J., Gonzalez-Martin, J., Garcia-Munoz, M., Rivero-Rodriguez, J., Herrmann, A., Vorbrugg, S., Leitenstern, P., Zoletnik, S., Galdon, J., Garcia Lopez, J., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Dominguez, A. D., Kocan, M., Gunn, J. P., Garcia-Vallejo, D., and Dominguez, J.: A fast feedback controlled magnetic drive for the ASDEX Upgrade fast-ion loss detectors. *Review of Scientific Instruments* 87, 11E705 (2016).
- Baiocchi, B., Bourdelle, C., Angioni, C., Imbeaux, F., Loarte, A., Maslov, M., and JET Contributors: Transport analysis and modelling of the evolution of hollow density profiles plasmas in JET and implication for ITER. *Nuclear Fusion* 55, 123001 (2015).
- Baiocchi, B., Garcia, J., Beurskens, M., Bourdelle, C., Crisanti, F., Giroud, C., Hobirk, J., Imbeaux, F., Nunes, I., JET Contributors, and EU-ITM ITER Scenario Modelling Group: Turbulent transport analysis of JET H-mode and hybrid plasmas using QuaLiKiz and Trapped Gyro Landau Fluid. *Plasma Physics and Controlled Fusion* 57, 035003 (2015).
- Baldzuhn, J., Rademann, D., and Reimer, H.: Vacuum leak search on Wendelstein W7-X using a numerical regression analysis. *Vacuum* 124, 89-95 (2016).
- Baldzuhn, J., Reimer, H., Biedermann, C., Grote, H., Hathi-ramani, D., Kornejew, P., Rademann, D., and Volzke, O.:

- Vacuum leak search on the Wendelstein 7-X cryostat vessel. Vacuum 115, 89-100 (2015).
- Banon Navarro, A., Happel, T., Görler, T., Jenko, F., Abiteboul, J., Bustos, A., Doerk, H., Told, D., and ASDEX Upgrade Team: Gyrokinetic studies of core turbulence features in ASDEX Upgrade H-mode plasmas. Physics of Plasmas 22, 042513 (2015).
- Banon Navarro, A., Told, D., Jenko, F., Görler, T., Happel, T., and ASDEX Upgrade Team: Comparisons between global and local gyrokinetic simulations of an ASDEX Upgrade H-mode plasma. Physics of Plasmas 23, 042312 (2016).
- Barbisan, M., Baltador, C., Zaniol, B., Cavenago, M., Fantz, U., Pasqualotto, R., Serianni, G., Vialeto, L., and Wunderlich, D.: First hydrogen operation of NIO1: Characterization of the source plasma by means of an optical emission spectroscopy diagnostic. Review of Scientific Instruments 87, 02B319 (2016).
- Baron-Wiechec, A., Widdowson, A., Alves, E., Ayres, C. F., Barradas, N. P., Brezinsek, S., Coad, J. P., Catarino, N., Heinola, K., Likonen, J., Matthews, G. F., Mayer, M., Petersson, P., Rubel, M., van Renterghem, W., Uytdehouwen, I., and JET-EFDA Contributors: Global erosion and deposition patterns in JET with the ITER-like wall. Journal of Nuclear Materials 463, 157-161 (2015).
- Barrett, T. R., Ellwood, G., Pérez, G., Kovari, M., Fursdon, M., Domptail, F., Kirk, S., McIntosh, S. C., Roberts, S., Zheng, S., Boccaccini, L. V., You, J.-H., Bachmann, C., Reiser, J., Rieth, M., Visca, E., Mazzone, G., Arbeiter, F., and Domalapally, P. K.: Progress in the engineering design and assessment of the European DEMO first wall and divertor plasma facing components. Fusion Engineering and Design 109-111, Pt. A, 917-924 (2016).
- Battes, K., Day, C., and Rohde, V.: Basic considerations on the pump-down time in the dwell phase of a pulsed fusion DEMO. Fusion Engineering and Design 100, 431-435 (2015).
- Baylor, L. R., Lang, P. T., Allen, S. L., Combs, S. K., Commiaux, N., Evans, T. E., Fenstermacher, M. E., Huijsmans, G., Jernigan, T. C., Lasnier, C. J., Leonard, A. W., Loarte, A., Maingi, R., Maruyama, S., Meitner, S. J., Moyer, R. A., and Osborne, T. H.: ELM mitigation with pellet ELM triggering and implications for PFCs and plasma performance in ITER. Journal of Nuclear Materials 463, 104-108 (2015).
- Beikler, R., and Taglauer, E.: Surface segregation at the binary alloy CuAu (100) studied by low-energy ion scattering. Surface Science 643, 138-141 (2016).
- Berger, B. M., Stadlmayr, R., Meisl, G., Cekada, M., Eisenmenger-Sittner, C., Sugiyama, K., Oberkofler, M., Schwarzsinger, T., and Aumayr, F.: Transient effects during erosion of WN by deuterium ions studied with the quartz crystal microbalance technique. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 382, 82-85 (2016).
- Bernert, M., Eich, T., Kallenbach, A., Carralero, D., Huber, A., Lang, P. T., Potzel, S., Reimold, F., Schweinzer, J., Viezzini, E., Zohm, H., and ASDEX Upgrade Team: The H-mode density limit in the full tungsten ASDEX Upgrade tokamak. Plasma Physics and Controlled Fusion 57, 014038 (2015).
- Beurskens, M. N. A., Dunne, M. G., Frassinetti, L., Bernert, M., Cavedon, M., Fischer, R., Järvinen, A., Kallenbach, A., Laggner, F. M., McDermott, R. M., Potzel, S., Schweinzer, J., Tardini, G., Viezzini, E., Wolfrum, E., ASDEX Upgrade Team, and EUROfusion MST1 Team: The role of carbon and nitrogen on the H-mode confinement in ASDEX Upgrade with a metal wall. Nuclear Fusion 56, 056014 (2016).
- Biancalani, A., Bottino, A., Briguglio, S., Könies, A., Lauber, P., Mishchenko, A., Poli, E., Scott, B. D., and Zonca, F.: Linear gyrokinetic particle-in-cell simulations of Alfvén instabilities in tokamaks. Physics of Plasmas 23, 012108 (2016).
- Biel, W., Baar, M. de, Dinklage, A., Felici, F., König, R., Meister, H., Treutterer, W., and Wenninger, R.: DEMO diagnostics and burn control. Fusion Engineering and Design 96-97, 8-15 (2015).
- Bilato, R., Bertelli, N., Brambilla, M., Dumont, R., Jaeger, E. F., Johnson, T., Lerche, E., Sauter, O., Van Eester, D., and Villard, L.: Status of the benchmark activity of ICRF full-wave codes within EUROfusion WPCD and beyond. AIP Conference Proceedings 1689, 060001 (2015).
- Birkenmeier, G., Cavedon, M., Conway, G. D., Manz, P., Stroth, U., Fischer, R., Fuchert, G., Happel, T., Laggner, F. M., Maraschek, M., Medvedeva, A., Nikolaeva, V., Prisiazniuk, D., Pütterich, T., Ryter, F., Shao, L. M., Willensdorfer, M., Wolfrum, E., Zohm, H., and ASDEX Upgrade Team: Magnetic structure and frequency scaling of limit-cycle oscillations close to L- to H-mode transitions. Nuclear Fusion 56, 086009 (2016).
- Birkenmeier, G., Manz, P., Carralero, D., Laggner, F., Fuchert, G., Krieger, K., Maier, H., Reimold, F., Schmid, K., Dux, R., Pütterich, T., Willensdorfer, M., Wolfrum, E., and ASDEX Upgrade Team: Filament transport, warm ions and erosion in ASDEX Upgrade L-modes. Nuclear Fusion 55, 033018 (2015).
- Bobkov, V., Braun, F., Dux, R., Herrmann, A., Faugel, H., Fünfgelder, H., Kallenbach, A., Neu, R., Noterdaeme, J.-M., Ochoukov, R., Pütterich, T., Tuccillo, A., Tudisco, O., Wang, Y., Yang, Q.,

and ASDEX Upgrade Team: First results with 3-strap ICRF antennas in ASDEX Upgrade. Nuclear Fusion 56, 084001 (2016).

Bobkov, V., Jacquet, P., Ochoukov, R., Zhang, W., Bilato, R., Braun, F., Carralero, D., Colas, L., Czarnecka, A., Dux, R., Faugel, H., Fünfgelder, H., Jacquot, J., Krivska, A., Lunt, T., Milanesio, D., Maggiora, R., Meyer, O., Monakhov, I., Noterdaeme, J.-M., Potzel, S., Puettnerich, T., Stepanov, I., and ASDEX Upgrade Team: Progress in controlling ICRF-edge interactions in ASDEX upgrade. AIP Conference Proc. 1689, 030004 (2015).

Bobyr, N. P., Alimov, V. K., Khripunov, B. I., Spitsyn, A. V., Mayer, M., Hatano, Y., Golubeva, A. V., and Petrov, V. B.: Influence of helium on hydrogen isotope exchange in tungsten at sequential exposures to deuterium and helium-protium plasmas. Journal of Nuclear Materials 463, 1122-1124 (2015).

Bogomolov, A. V., Classen, I. G. J., Boom, J., Donné, A. J. H., Wolfrum, E., Fischer, R., Viezzier, E., Schneider, P., Manz, P., Suttrop, W., and Luhmann Jr., N. C.: Study of the ELM fluctuation characteristics during the mitigation of type-I ELMs. Nuclear Fusion 55, 083018 (2015).

Bonomo, F., Ruf, B., Barbisan, M., Cristofaro, S., Schiesko, L., Fantz, U., Franzen, P., Pasqualotto, R., Riedl, R., Serianni, G., Wunderlich, D., and NNBI Team: BATMAN Beam Properties Characterization by the Beam Emission Spectroscopy Diagnostic. AIP Conference Proceedings 1655, 060009 (2015).

Boscary, J., Greuner, H., Ehrke, G., Böswirth, B., Wang, Z., Clark, E., Lumsdaine, A., Tretter, J., McGinnis, D., Lore, J., and Ekici, K.: Prototyping phase of the high heat flux scraper element of Wendelstein 7-X. Fusion Engineering and Design 109-111, Pt. A, 773-776 (2016).

Boscary, J., Lore, J., Lumsdaine, A., Maier, M., McGinnis, D., Peacock, A., and Tretter, J.: Development activities of the high heat flux scraper element. Fusion Engineering and Design 98-99, 1231-1234 (2015).

Bosch, H.-S., Bykov, V., Brakel, R., Eeten, P. van, Feist, J.-H., Gasparotto, M., Grote, H., Klinger, T., Nagel, M., Naujoks, D., Neilson, G. H., Rummel, T., Schacht, J., Vilbrandt, R., Wegener, L., and Werner, A.: Experience with the commissioning of the superconducting stellarator Wendelstein 7-X. Fusion Engineering and Design 96-97, 22-27 (2015).

Bottino, A., and Sonnendrücker, E.: Monte Carlo particle-in-cell methods for the simulation of the Vlasov-Maxwell gyrokinetic equations. Journal of Plasma Physics 81, 435810501 (2015).

Bourdelle, C., Artaud, J. F., Basiuk, V., Bécoulet, M., Brémond, S., Bucalossi, J., Bufferand, H., Ciracolo, G., Colas, L., Corre, Y.,

Courtois, X., Decker, J., Delpech, L., Devynck, P., Dif-Pradalier, G., Doerner, R. P., Douai, D., Dumont, R., Ekedahl, A., Fedorczak, N., Fenzi, C., Fidaouss, M., Garcia, J., Ghendrih, P., Gil, C., Giruzzi, G., Goniche, M., Grisolía, C., Grosman, A., Guilhem, D., Guirlet, R., Gunn, J., Hennequin, P., Hillairet, J., Hoang, T., Imbeaux, F., Ivanova-Stanik, I., Joffrin, E., Kallenbach, A., Linke, J., Loarer, T., Lotte, P., Maget, P., Marandet, Y., Mayoral, M. L., Meyer, O., Missirlian, M., Mollard, P., Monier-Garbet, P., Moreau, P., Nardon, E., Pégourié, B., Peysson, Y., Sabot, R., Saint-Laurent, F., Schneider, M., Travère, J. M., Tsitrone, E., Vartanian, S., Vermare, L., Yoshida, M., Zagorski, R., and JET Contributors: WEST Physics Basis. Nuclear Fusion 55, 063017 (2015).

Bowden, G. W., Hole, M. J., and Könies, A.: Calculation of continuum damping of Alfvén eigenmodes in tokamak and stellarator equilibria. Physics of Plasmas 22, 092114 (2015).

Bozhenkov, S., Lazerson, S., Otte, M., Gates, D. A., Pedersen, T. S., and Wolf, R. C.: Methods for measuring 1/1 error field in Wendelstein 7-X stellarator. Nuclear Fusion 56, 076002 (2016).

Bradshaw, A. M., and Woodruff, D. P.: Molecular orbital tomography for adsorbed molecules: is a correct description of the final state really unimportant? New Journal of Physics 17, 013033 (2015).

Brambilla, M., and Bilato, R.: On radio frequency current drive in the ion cyclotron range of frequencies in DEMO and large ignited plasmas. Nuclear Fusion 55, 023016 (2015).

Brand, H. van den, Baar, M. R. de, Berkel, M. van, Blanken, T. C., Felici, F., Westerhof, E., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: A model-based, multi-channel, real-time capable sawtooth crash detector. Plasma Physics and Controlled Fusion 58, 075002 (2016).

Brandt, C., Thakur, S. C., and Tynan, G. R.: Investigating flow patterns and related dynamics in multi-instability turbulent plasmas using a three-point cross-phase time delay estimation velocimetry scheme. Physics of Plasmas 23, 042304 (2016).

Bratanov, V., Jenko, F., and Frey, E.: New class of turbulence in active fluids. Proceedings of the National Academy of Sciences of the United States of America 112, 15048-15053 (2015).

Brezinsek, S., Widdowson, A., Mayer, M., Philipps, V., Baron-Wiechec, P., Coenen, J. W., Heinola, K., Huber, A., Likonen, J., Petersson, P., Rubel, M., Stamp, M. F., Borodin, D., Coad, J. P., Carrasco, A. G., Kirschner, A., Krat, S., Krieger, K., Lipschultz, B., Linsmeier, Ch., Matthews, G. F., Schmid, K.,

- and JET Contributors: Beryllium migration in JET ITER-like wall plasmas. *Nuclear Fusion* 55, 063021 (2015).
- Briefi, S., Fantz, U., and Gutman, P.: Alternative RF coupling configurations for H⁻ ion sources. *AIP Conference Proceedings* 1655, 040003 (2015).
- Briefi, S., Fink, D., Mattei, S., Lettry, J., and Fantz, U.: Determination of discharge parameters via OES at the Linac4 H⁻ ion source. *Review of Scientific Instruments* 87, 02B104 (2016).
- Briefi, S., Gutmann, P., Rauner, D., and Fantz, U.: Comparison of the B field dependency of plasma parameters of a weakly magnetized inductive and Helicon hydrogen discharge. *Plasma Sources Science and Technology* 25, 035015 (2016).
- Buet, C., Despres, B., and Franck, E.: Asymptotic Preserving Schemes on Distorted Meshes for Friedrichs Systems with Stiff Relaxation: Application to Angular Models in Linear Transport. *Journal of Scientific Computing* 62, 371-398 (2015).
- Bulanin, V. V., Askinazi, L. G., Belokurov, A. A., Kornev, V. A., Lebedev, V., Petrov, A. V., Tukachinsky, A. S., Vildjunas, M. I., Wagner, F., and Yashin, A. Y.: GAM observation in the TUMAN-3M tokamak. *Plasma Physics and Controlled Fusion* 58, 045006 (2016).
- Bulanin, V. V., Gusev, V. K., Iblyaminova, A. D., Khromov, N. A., Kurskiev, G. S., Minaev, V. B., Patrov, M. I., Petrov, A. V., Petrov, Y. V., Sakharov, N. V., Shchegolev, P. B., Tolstyakov, S. Y., Varfolomeev, V. I., Wagner, F., and Yashin, Y.: Geodesic acoustic mode investigation in the spherical Globus-M tokamak using multi-diagnostic approach. *Nuclear Fusion* 56, 016017 (2016).
- Burckhart, A., Dunne, M., Wolfrum, E., Fischer, R., McDermott, R., Viezzier, E., Willendorfer, M., and ASDEX Upgrade Team: ELM behaviour and linear MHD stability of edge ECRH heated ASDEX Upgrade plasmas. *Nuclear Fusion* 56, 056011 (2016).
- Bustos, A., Banon Navarro, A., Görler, T., Jenko, F., and Hidalgo, C.: Microturbulence study of the isotope effect. *Physics of Plasmas* 22, 012305 (2015).
- Bykov, V., Egorov, K., Fellinger, J., Kallmeyer, J. P., Schauer, F., and Gasparotto, M.: Wendelstein 7-X Mechanical Instrumentation System for Commissioning and Operation. *Fusion Science and Technology* 68, 267-271 (2015).
- Bykov, V., Fellinger, J., Egorov, K., Schauer, F., Köppen, M., and Jenzsch, H.: Sliding weight supports for W7-X magnet system: structural aspects. *Nuclear Fusion* 55, 053002 (2015).
- Bykov, V., Fellinger, J., Schauer, F., Carls, A., Köppen, M., Eeten, P. van, Bosch, H.-S., Wegener, L., and Zhu, J.: Structural Analysis at the Transition from W7-X Construction to Operation. *IEEE Transactions on Plasma Science* 44, 1722-1730 (2016).
- Caldwell, A., Adli, E., Amorim, L., Apsimon, R., Argyropoulos, T., Assmann, R., Bachmann, A.-M., Batsch, F., Bauche, J., Berglyd Olsen, V. K., Bernardini, M., Bingham, R., Biskup, B., Bohl, T., Bracco, C., Burrows, P. N., Burt, G., Buttenschön, B., Butterworth, A., Cascella, M., Chattopadhyay, S., Chevallay, E., Cipiccia, S., Damerau, H., Deacon, L., Dirksen, P., Doeberl, S., Dorda, U., Elsen, E., Farmer, J., Fartoukh, S., Fedosseev, V., Feldbaumer, E., Fiorito, R., Fonseca, R., Friebel, F., Geschonke, G., Goddard, B., Gorn, A. A., Grulke, O., Gschwendner, E., Hansen, J., Hessler, C., Hillenbrand, S., Hofle, W., Holloway, J., Huang, C., Hüther, M., Jaroszynski, D., Jensen, L., Jolly, S., Joulaei, A., Kasim, M., Keeble, F., Kersevan, R., Kumar, N., Li, Y., Liu, S., Lopes, N., Lotov, K. V., Lu, W., Machacek, J., Mandry, S., Martin, I., Martorelli, R., Martynov, M., Mazzoni, S., Meddahi, M., Merminga, L., Mete, O., Minakov, V. A., Mitchell, J., Moody, J., Müller, A.-S., Najmudin, Z., Noakes, T. C. Q., Norreys, P., Osterhoff, J., Öz, E., Pardons, A., Pepitone, K., Petrenko, A., Plyushchev, G., Poziomski, J., Pukhov, A., Reimann, O., Rieger, K., Roesler, S., Ruhl, H., Rusnak, T., Salveter, F., Savard, N., Schmidt, J., Schmitt, H. von der, Seryi, A., Shaposhnikova, E., Sheng, Z. M., Sherwood, P., Silva, L., Simon, F., Soby, L., Sosedkin, A. P., Spitsyn, R. I., Tajima, T., Tarkeshian, R., Timko, H., Trines, R., Tückmantel, T., Tuev, P. V., Turner, M., Velotti, F., Verzilov, V., Vieira, J., Vincke, H., Wei, Y., Welsch, C. P., Wing, M., Xia, G., Yakimenko, V., Zhang, H., and Zimmermann, F.: Path to AWAKE: Evolution of the concept. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 829, 3-16 (2016).
- Campos Pinto, M., Mounier, M., and Sonnendrücker, E.: Handling the divergence constraints in Maxwell and Vlasov-Maxwell simulations. *Applied Mathematics and Computation* 272, 403-419 (2016).
- Campos Pinto, M., and Sonnendrücker, E.: Gauss-compatible Galerkin schemes for time-dependent Maxwell equations. *Mathematics of Computation* 85, 2651-2685 (2016).
- Canal, G. P., Lunt, T., Reimerdes, H., Duval, B. P., Labit, B., Vijvers, W. A. J., and TCV Team: Enhanced E×B drift effects in the TCV snowflake divertor. *Nuclear Fusion* 55, 123023 (2015).
- Carralero, D., Manz, P., Aho-Mantila, L., Birkenmeier, G., Brix, M., Groth, M., Müller, H. W., Stroth, U., Vianello, N.,

Wolfrum, E., ASDEX Upgrade Team, JET Contributors, and EUROfusion MST1 Team: Experimental Validation of a Filament Transport Model in Turbulent Magnetized Plasmas. *Physical Review Letters* 115, 215002 (2015).

Carralero, D., Müller, H. W., Groth, M., Komm, M., Adamek, J., Birkenmeier, G., Brix, M., Janky, F., Hacek, P., Marsen, S., Reimold, F., Silva, C., Stroth, U., Wischmeier, M., Wolfrum, E., ASDEX Upgrade Team, COMPASS Team, and JET-EFDA Contributors: Implications of high density operation on SOL transport: a multimachine investigation. *Journal of Nuclear Materials* 463, 123-127 (2015).

Casson, F. J., Angioni, C., Belli, E. A., Bilato, R., Mantica, P., Odstrcil, T., Pütterich, T., Valisa, M., Garzotti, L., Giroud, C., Hobirk, J., Maggi, C. F., Mlynar, J., Reinke, M. L., JET-EFDA Contributors, and ASDEX Upgrade Team: Theoretical description of heavy impurity transport and its application to the modelling of tungsten in JET and ASDEX upgrade. *Plasma Physics and Controlled Fusion* 57, 014031 (2015).

Casson, F., Poli, E., Angioni, C., Buchholz, R., and Peeters, A. G.: Effect of turbulence on electron cyclotron current drive and heating in ITER. *Nuclear Fusion* 55, 012002 (2015).

Cerri, S. S., Califano, F., Jenko, F., Told, D., and Rincon, F.: Subproton-scale Cascades in Solar Wind Turbulence: Driven Hybrid-kinetic Simulations. *The Astrophysical Journal Letters* 822, L12 (2016).

Challis, C. D., Garcia, J., Beurskens, M., Buratti, P., Delabie, E., Drewelow, P., Frassinetti, L., Giroud, C., Hawkes, N., Hobirk, J., Joffrin, E., Keeling, D., King, D. B., Maggi, C. F., Mailloux, J., Marchetto, C., McDonald, D., Nunes, I., Pucella, G., Saarela, S., Simpson, J., and JET Contributors: Improved confinement in JET high β plasmas with an ITER-like wall. *Nuclear Fusion* 55, 053031 (2015).

Chankin, A. V., Corrigan, G., Groth, M., Stangeby, P. C., and JET Contributors: Influence of the $E \times B$ Drift in High Recycling Divertors on Target Asymmetries. *Plasma Physics and Controlled Fusion* 57, 095002 (2015).

Chankin, A. V., and Coster, D. P.: On the locality of parallel transport of heat carrying electrons in the SOL. *Journal of Nuclear Materials* 463, 498-501 (2015).

Chapman, I. T., Luna, E. de la, Lang, P. T., Liang, Y., Alper, B., Denner, P., Frigione, D., Garzotti, L., Ham, C. J., Huijsmans, G. T. A., Jachmich, S., Kocsis, G., Lennholm, M., Lupelli, I., Rimini, F. G., Sips, A. C. C., and JET Contributors: Advances in understanding and utilising ELM control in JET. *Plasma Physics and Controlled Fusion* 58, 014017 (2016).

Chernyshova, M., Malinowski, K., Czarski, T., Wojenski, A., Vezinet, D., Pozniak, K. T., Kasprowicz, G., Mazon, D., Jardin, A., Herrmann, A., Kowalska-Strzeciwilk, E., Krawczyk, R., Kolasinski, P., Zabolotny, W., Zienkiewicz, P., ASDEX Upgrade Team, and EUROfusion MST1 Team: Gaseous electron multiplier-based soft x-ray plasma diagnostics development: Preliminary tests at ASDEX Upgrade. *Review of Scientific Instruments* 87, 11E325 (2016).

Chiang, H.-Y., Park, S.-H., Mayer, M., Schmid, K., Balden, M., Boesenber, U., Jungwirth, R., Falkenberg, G., Zweifel, T., and Petry, W.: Swift heavy ion irradiation induced interactions in the UMo/X/Al trilayer system (X = Ti, Zr, Nb, and Mo): RBS and μ -XRD studies. *Journal of Alloys and Compounds* 626, 381-390 (2015).

Chiari, M., Bianconi, M., Bogdanovic Radovic, I., and Mayer, M.: Benchmark measurements of non-Rutherford proton elastic scattering cross section for boron. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 343, 70-76 (2015).

Christlieb, A. J., Güclü, Y., and Seal, D. C.: The Picard integral formulation of weighted essentially nonoscillatory schemes. *SIAM Journal on Numerical Analysis* 53, 1833-1856 (2015).

Citrin, J., Garcia, J., Görler, T., Jenko, F., Mantica, P., Told, D., Bourdelle, C., Hatch, D. R., Hogeweij, G. M. D., Johnson, T., Püschel, M. J., and Schneider, M.: Electromagnetic stabilization of tokamak microturbulence in a high- β regime. *Plasma Physics and Controlled Fusion* 57, 014032 (2015).

Clark, E., Lumsdaine, A., Boscary, J., Ekici, K., Harris, J., McGinnis, D., Lore, J. D., Peacock, A., and Tretter, J.: Multi-physics Analysis of the Wendelstein 7-X Actively Cooled Scraper Element. *Fusion Science and Technology* 68, 635-639 (2015).

Coelho, R., Matejcik, S., McCarthy, P., Suchkov, E. P., Zaitsev, F. S., EU-IM Team, and ASDEX Upgrade Team: Evaluation of Epsilon-Net Calculated Equilibrium Reconstruction Error Bars in the European Integrated Modeling Platform. *Fusion Science and Technology* 69, 611-619 (2016).

Coenen, J. W., Antusch, S., Aumann, M., Biel, W., Du, J., Engels, J., Heuer, S., Houben, A., Höschken, T., and Jasper, B.: Materials for DEMO and reactor applications-boundary conditions and new concepts. *Physica Scripta* T167, 014002 (2016).

Coenen, J. W., Arnoux, G., Bazylev, B., Matthews, G. F., Autricque, A., Balboa, I., Clever, M., Dejarnac, R., Coffey, I., Corre, Y., Devaux, S., Frassinetti, L., Gauthier, E., Horacek, J., Jachmich, S., Komm, M., Knaup, M., Krieger, K., Marsen, S., Meigs, A., Mertens, P., Pitts, R. A., Puetterich, T., Rack, M.,

- Stamp, M., Sergienko, G., Tamain, P., Thompson, V., and JET-EFDA Contributors: ELM-induced transient tungsten melting in the JET divertor. *Nuclear Fusion* 55, 023010 (2015).
- Coenen, J. W., Arnoux, G., Bazylev, B., Matthews, G. F., Jachmich, S., Balboa, I., Clever, M., Dejarnac, R., Coffey, I., Corre, Y., Devaux, S., Frassinetti, L., Gauthier, E., Horacek, J., Knaup, M., Komm, M., Krieger, K., Marsen, S., Meigs, A., Mertens, P., Pitts, R. A., Pütterich, T., Rack, M., Stamp, M., Sergienko, G., Tamain, P., Thompson, V., and JET-EFDA Contributors: ELM induced tungsten melting and its impact on tokamak operation. *Journal of Nuclear Materials* 463, 78-84 (2015).
- Colas, L., Jacquet, P., Van Eester, D., Bobkov, V., Brix, M., Meneses, L., Tamain, P., Marsen, S., Silva, C., Carralero, D., Kocan, M., Mueller, H.-W., Cromb  , K., Krivska, A., Goniche, M., Lerche, E., Rimini, F. G., JET-EFDA Contributors, and ASDEX Upgrade Team: Localized Scrape-off Layer density modifications by Ion Cyclotron near fields in JET and ASDEX-Upgrade L-mode plasmas. *Journal of Nuclear Materials* 463, 735-738 (2015).
- Colas, L., Lu, L.-F., Krivska, A., and Jacquot, J.: Radio-frequency sheath voltages and slow wave electric field spatial structure. *AIP Conference Proceedings* 1689, 050009 (2015).
- Cole, M., Mishchenko, A., K  nies, A., Hatzky, R., and Kleiber, R.: A hierarchy of electromagnetic gyrokinetic and fluid hybrid models for the simulation of global modes. *Plasma Physics and Controlled Fusion* 57, 054013 (2015).
- Coleman, M., Maviglia, F., Bachmann, C., Anthony, J., Federici, G., Shannon, M., and Wenninger, R.: On the EU approach for DEMO architecture exploration and dealing with uncertainties. *Fusion Engineering and Design* 109-111, Pt. B, 1185-1162 (2016).
- Constantinescu, D., Dumbrajs, O., Igochine, V., Lackner, K., Zohm, H., and ASDEX Upgrade Team: Bifurcations and fast-slow dynamics in a low-dimensional model for quasi-periodic plasma perturbations. *Romanian Reports in Physics* 67, 1049-1060 (2015).
- Conway, G., Fietz, S., M  ller, H. W., Lunt, T., Simon, P., Suttrop, W., Maraschek, M., Happel, T., Viezzzer, E., and ASDEX Upgrade Team: Impact of magnetic perturbation coils on the edge radial electric field and turbulence in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 014035 (2015).
- Coster, D. P.: Reduced Physics Models in SOLPS for Reactor Scoping Studies. *Contributions to Plasma Physics* 56, 790-795 (2016).
- Coster, D. P., Chankin, A. V., Klingshirn, H.-J., Dux, R., Fable, E., Bonnin, X., Kukushkin, A., and Loarte, A.: SOLPS modelling of W arising from repetitive mitigated ELMs in ITER. *Journal of Nuclear Materials* 463, 620-623 (2015).
- Crescenzi, F., Bachmann, C., Richou, M., Roccella, S., Visca, E., and You, J.-H.: Design study of ITER-like divertor target for DEMO. *Fusion Engineering and Design* 98-99, 1263-1266 (2015).
- Crombe, K., Devaux, S., D'Inca, R., Faudot, E., Faugel, H., F  nfgelder, H., Heuraux, S., Jacquot, J., Louche, F., Moritz, J., Ochoukov, R., Tripsy, M., Van Eester, D., Wauters, T., and Noterdaeme, J.-M.: Studies of RF sheaths and diagnostics on ISHTAR. *AIP Conference Proceedings* 1689, 030006 (2015).
- Czarnecka, A., Bobkov, V., Dux, R., P  tterich, T., Sertoli, M., and ASDEX Upgrade Team: Trends of W behavior in ICRF assisted discharges in ASDEX Upgrade. *Journal of Nuclear Materials* 463, 601-604 (2015).
- D'Inca, R., Jacquot, J., Ochoukov, R., Morgal, I., Crombe, K., Louche, F., Van Eester, D., Heuraux, S., Devaux, S., Moritz, J., Faudot, E., F  nfgelder, H., Faugel, H., and Noterdaeme, J.-M.: First experimental results on the ISHTAR testbed. *AIP Conference Proceedings* 1689, 050010 (2015).
- Dai, S., Kobayashi, M., Kawamura, G., Morita, S., Zhang, H. M., Oishi, T., Feng, Y., Wang, D. Z., Suzuki, Y., and LHD Experimental Group: EMC3-EIRENE modelling of edge impurity transport in the stochastic layer of the large helical device compared with extreme ultraviolet emission measurements. *Nuclear Fusion* 56, 066005 (2016).
- Day, C., Butler, B., Giegerich, T., Lang, P. T., Lawless, R., and Meszaros, B.: Consequences of the technology survey and gap analysis on the EU DEMO R&D programme in tritium, matter injection and vacuum. *Fusion Engineering and Design* 109-111, Pt. A, 299-308 (2016).
- De Camillis, S., Cerri, S. S., Califano, F., and Pegoraro, F.: Pressure anisotropy generation in a magnetized plasma configuration with a shear flow velocity. *Plasma Physics and Controlled Fusion* 58, 045007 (2016).
- deGrassie, J. S., Solomon, W. M., Rice, J. E., and Noterdaeme, J.-M.: Dimensionless size scaling of intrinsic rotation in DIII-D. *Physics of Plasmas* 23, 082501 (2016).
- Den Harder, N., Brezinsek, S., P  tterich, T., Fedorczak, N., Matthews, G. F., Meigs, A., Stamp, M. F., Sanden, M. C. M., van de, Van Rooij, G. J., and JET Contributors: ELM-resolved divertor erosion in the JET ITER-Like Wall. *Nuclear Fusion* 56, 026014 (2016).

Dibon, M., Baldzuhn, J., Beck, M., Cardella, A., Köchl, F., Kocsis, G., Lang, P. T., Macian-Juan, R., Ploeckl, B., Szepesi, T., and Weisbart, W.: Blower gun pellet injection system for W7-X. *Fusion Engineering and Design* 98-99, 1759-1762 (2015).

Dif-Pradalier, G., Hornung, G., Ghendrih, P., Sarazin, Y., Clairet, F., Vermare, L., Diamond, P. H., Abiteboul, J., Cartier-Michaud, T., Ehrlacher, C., Estève, D., Garbet, X., Grandgirard, V., Gürcan, Ö. D., Hennequin, P., Kosuga, Y., Latu, G., Maget, P., Morel, P., Norscini, C., Sabot, R., and Storelli, A.: Finding the Elusive E×B Staircase in Magnetized Plasmas. *Physical Review Letters* 114, 085004 (2015).

Doerk, H., Challis, C., Citrin, J., Garcia, J., Görler, T., Jenko, F., and JET Contributors: Gyrokinetic study of turbulence suppression in a JET-ILW power scan. *Plasma Physics and Controlled Fusion* 58, 115005 (2016).

Doerk, H., Dunne, M., Jenko, F., Ryter, F., Schneider, P. A., Wolfrum, E., and ASDEX Upgrade Team: Electromagnetic effects on turbulent transport in high-performance ASDEX Upgrade discharges. *Physics of Plasmas* 22, 042503 (2015).

Doerner, R. P., Jepu, I., Nishijima, D., Safi, E., Bukonte, L., Lasa, A., Nordlund, K., and Schwarz-Selinger, T.: The relationship between gross and net erosion of beryllium at elevated temperature. *Journal of Nuclear Materials* 463, 777-780 (2015).

Dominski, J., Brunner, S., Görler, T., Jenko, F., Told, D., and Villard, L.: How non-adiabatic passing electron layers of linear microinstabilities affect turbulent transport. *Physics of Plasmas* 22, 062303 (2015).

Douai, D., Kogut, D., Wauters, T., Brezinsek, S., Hagelaar, G. J. M., Hong, S. H., Lomas, P. J., Lyssoivan, A., Nunes, I., Pitts, R. A., Rohde, V., Vries, P. C. de, JET EFDA Contributors, and ASDEX Upgrade Team: Wall conditioning for ITER: Current experimental and modeling activities. *Journal of Nuclear Materials* 463, 150-156 (2015).

Drenik, A., Oberkofler, M., Alegre, D., Kruezi, U., Brezinsek, S., Mozetic, M., Nunes, I., Wischmeier, M., Giroud, C., Maddison, G., Reux, C., and JET EFDA Contributors: Mass spectrometry analysis of the impurity content in N₂ seeded discharges in JET-ILW. *Journal of Nuclear Materials* 463, 684-687 (2015).

Du, J., Yuan, Y., Wirtz, M., Linke, J., Liu, W., and Greuner, H.: FEM study of recrystallized tungsten under ELM-like heat loads. *Journal of Nuclear Materials* 463, 219-222 (2015).

Dunne, M., Rathgeber, S., Burckhart, A., Fischer, R., Giannone, L., McCarthy, P. J., Schneider, P. A., Wolfrum, E., and

ASDEX Upgrade Team: Impact of T_e and N_e on edge current density profiles in ELM mitigated regimes on ASDEX Upgrade. *Nuclear Fusion* 55, 013013 (2015).

Eeten, P. van, Bräuer, T., Bykov, V., Carls, A., Fellinger, J., and Kallmeyer, J. P.: Features and analyses of W7-X cryostat system FE model. *Fusion Engineering and Design* 96-97, 369-372 (2015).

Eidietis, N. W., Gerhardt, S. P., Granetz, R. S., Kawano, Y., Lehnen, M., Lister, J. B., Pautasso, G., Riccardo, V., Tanna, R. L., Thornton, A. J., and ITPA Disruption Database Participants: The ITPA disruption database. *Nuclear Fusion* 55, 063030 (2015).

Endler, M., Brucker, B., Bykov, V., Cardella, A., Carls, A., Dobmeier, F., Dudek, A., Fellinger, J., Geiger, J., Grosser, K., Grulke, O., Hartmann, D., Hathiramani, D., Höchel, K., Köppen, M., Laube, R., Neuner, U., Peng, X., Rahbarnia, K., Rummel, K., Sieber, T., Thiel, S., Vorköper, A., Werner, A., Windisch, T., and Ye, M. Y.: Engineering design for the magnetic diagnostics of Wendelstein 7-X. *Fusion Engineering and Design* 100, 468-494 (2015).

Faber, B. J., Pueschel, M. J., Proll, J. H. E., Xanthopoulos, P., Terry, P. W., Hegna, C. C., Weir, G. M., Likin, K. M., and Talmadge, J. N.: Gyrokinetic studies of trapped electron mode turbulence in the Helically Symmetric eXperiment stellarator. *Physics of Plasmas* 22, 072305 (2015).

Fable, E.: A toroidal momentum transport equation for axisymmetric 1D transport codes. *Plasma Physics and Controlled Fusion* 57, 045007 (2015).

Fable, E., Pautasso, G., Lehnen, M., Dux, R., Bernert, M., Mlynek, A., and ASDEX Upgrade Team: Transport simulations of the pre-thermal-quench phase in ASDEX Upgrade massive gas injection experiments. *Nuclear Fusion* 56, 026012 (2016).

Faitsch, M., Sieglin, B., Eich, T., Sun, H. J., and Herrmann, A.: Change of the scrape-off layer power width with the toroidal B-field direction in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 075005 (2015).

Fantz, U., Briefi, S., Rauner, D., and Wunderlich, D.: Quantification of the VUV radiation in low pressure hydrogen and nitrogen plasmas. *Plasma Sources Science and Technology* 25, 045006 (2016).

Fantz, U., Franzen, P., Kraus, W., Schiesko, L., Wimmer, C., and Wunderlich, D.: Size Scaling of Negative Hydrogen Ion Sources for Fusion. *AIP Conference Proceedings* 1655, 040001 (2015).

Fantz, U., Friedl, R., and Briefi, S.: Correlation of size, velocity, and autonomous phase of a plasmoid in atmosphere with the dissipated energy. *Journal of Applied Physics* 117, 173301 (2015).

Fantz, U., Heinemann, B., Wunderlich, D., Riedl, R., Kraus, W., Nocentini, R., and Bonomo, F.: Towards 20 A negative hydrogen ion beams for up to 1 h: Achievements of the ELISE test facility (invited). *Review of Scientific Instruments* 87, 02B307 (2016).

Faustin, J. M., Cooper, W. A., Geiger, J., Graves, J. P., and Pfefferlé, D.: Applications of the SCENIC code package to the minority ion-cyclotron heating in Wendelstein 7-X plasmas. *AIP Conference Proceedings* 1689, 060003 (2015).

Faustin, J. M., Cooper, W. A., Graves, J. P., Pfefferlé, D., and Geiger, J.: Fast particle loss channels in Wendelstein 7-X. *Nuclear Fusion* 56, 092006 (2016).

Faustin, J. M., Cooper, W. A., Graves, J. P., Pfefferlé, D., and Geiger, J.: ICRH induced particle losses in Wendelstein 7-X. *Plasma Physics and Controlled Fusion* 58, 074004 (2016).

Federici, G., Bachmann, C., Biel, W., Boccaccini, L., Cismonti, F., Ciattaglia, S., Coleman, M., Day, C., Diegele, E., Franke, T., Grattarola, M., Hurzlmeier, H., Ibarra, A., Loving, A., Maviglia, F., Meszaros, B., Morlock, C., Rieth, M., Shannon, M., Taylor, N., Tran, M. Q., You, J. H., Wenninger, R., and Zani, L.: Overview of the design approach and prioritization of R&D activities towards an EU DEMO. *Fusion Engineering and Design* 109-111, Pt. B, 1464-1474 (2016).

Fedorczak, N., Monier-Garbet, P., Pütterich, T., Brezinsek, S., Devynck, P., Dumont, R., Goniche, M., Joffrin, E., Lerche, E., Lipschultz, B., Luna, E. de la, Maddison, G., Maggi, C., Matthews, G., Nunes, I., Rimini, F., Solano, E. R., Tamain, P., Tsalas, M., Vries, P. de, and JET-EFDA Contributors: Tungsten transport and sources control in JET ITER-like wall H-mode plasmas. *Journal of Nuclear Materials* 463, 85-90 (2015).

Fellinger, J., Egorov, K., Bykov, V., and Schauer, F.: Preparation for commissioning of structural sensors of Wendelstein 7-X magnet system. *Fusion Engineering and Design* 98-99, 1048-1052 (2015).

Feng, Y., Beidler, C. D., Geiger, J., Helander, P., Hölbe, H., Maassberg, H., Turkin, Y., Reiter, D., and W7-X Team: On the W7-X divertor performance under detached conditions. *Nuclear Fusion* 56, 126011 (2016).

Fevrier, O., Maget, P., Lütjens, H., Luciani, J. F., Decker, J., Giruzzi, G., Reich, M., Beyer, P., Lazzaro, E., Nowak, S.,

and ASDEX Upgrade Team: First principles fluid modelling of magnetic island stabilization by electron cyclotron current drive (ECCD). *Plasma Physics and Controlled Fusion* 58, 045015 (2016).

Fietz, S., Bergmann, A., Classen, I., Maraschek, M., Garcia-Munoz, M., Suttrop, W., Zohm, H., and ASDEX Upgrade Team: Influence of externally applied magnetic perturbations on neoclassical tearing modes at ASDEX Upgrade. *Nuclear Fusion* 55, 013018 (2015).

Figini, L., Farina, D., Henderson, M. A., Mariani, A., Poli, E., and Saibene, G.: Assessment of the ITER electron cyclotron upper launcher capabilities in view of an optimized design. *Plasma Physics and Controlled Fusion* 57, 054015 (2015).

Figini, L., Farina, D., Poli, E., Sauter, O., Bruschi, A., Goodman, T., Moro, A., Platania, P., Sozzi, C., Cavinato, M., Saibene, G., and Henderson, M.: Assessment of the ITER EC Upper Launcher Performance. *EPJ Web of Conferences* 87, 01011 (2015).

Fil, A., Nardon, E., Hölzl, M., Huijsmans, G. T. A., Orain, F., Becoulet, M., Beyer, P., Dif-Pradalier, G., Guirlet, R., Koslowski, H. R., Lehnen, M., Morales, J., Pamela, S., Passeron, C., Reux, C., Saint-Laurent, F., and JET Contributors: Three-dimensional non-linear magnetohydrodynamic modeling of massive gas injection triggered disruptions in JET. *Physics of Plasmas* 22, 062509 (2015).

Filbert-Demut, I., Bei, G., Hoeschen, T., Riesch, J., Travitzky, N., and Greil, P.: Influence of Ti_3SiC_2 Fiber Coating on Interface and Matrix Cracking in an SiC Fiber-Reinforced Polymer-Derived Ceramic. *Advanced Engineering Materials* 17, 1142-1148 (2015).

Finlay, T. J., Davis, J. W., Sugiyama, K., Alimov, V. K., and Haasz, A. A.: Effects of D and He implantation depth on D retention in tungsten under simultaneous D-He ion irradiation. *Physica Scripta* T167, 014042 (2016).

Firdauss, M., Corre, Y., Languille, P., Greuner, H., Autissier, E., Desranges, C., Guilhem, D., Gunn, J. P., Lipa, M., Missirlian, M., Pascal, J.-Y., Pocheau, C., Richou, M., and Tsitrone, E.: Operational limits on WEST inertial divertor sector during the early phase experiment. *Physica Scripta* T167, 014012 (2016).

Fischer, R., Bock, A., Dunne, M., Fuchs, J. C., Giannone, L., Lackner, K., McCarthy, P. J., Poli, E., Preuss, R., Rampp, M., Schubert, M., Stober, J., Suttrop, W., Tardini, G., Weiland, M., and ASDEX Upgrade Team.: Coupling of the Flux Diffusion Equation with the Equilibrium Reconstruction at ASDEX Upgrade. *Fusion Science and Technology* 69, 526-536 (2016).

Flanagan, J. C., Sertoli, M., Bacharis, M., Matthews, G. F., Vries, P. C. de, Widdowson, A., Coffey, I. H., Arnoux, G., Sieglin, B., Brezinsek, S., Coenen, J. W., Marsen, S., Craciunescu, T., Murari, A., Harting, D., Cackett, A., and Hodille, E.: Characterising dust in JET with the new ITER-like wall. *Plasma Physics and Controlled Fusion* 57, 014037 (2015).

Flesch, K., Kremeyer, T., Schmitz, O., Soukhanovskii, V., and Wenzel, U.: Development of miniaturized, spectroscopically assisted Penning gauges for fractional helium and hydrogen neutral pressure measurements. *Review of Scientific Instruments* 87, 11E529 (2016).

Ford, O. P., Burckhart, A., McDermott, R., Pütterich, T., Wolf, R. C., and ASDEX Upgrade Team: Imaging motional Stark effect measurements at ASDEX Upgrade. *Review of Scientific Instruments* 87, 11E537 (2016).

Ford, O. P., Howard, J., and Wolf, R. C.: The prototype imaging motional Stark effect diagnostic for ASDEX upgrade. *Review of Scientific Instruments* 86, 093504 (2015).

Förstel, M., Mucke, M., Arion, T., Lischke, T., Pernpointner, M., Hergenhahn, U., and Fasshauer, E.: Long-Range Interatomic Coulombic Decay in ArXe Clusters: Experiment and Theory. *The Journal of Physical Chemistry C* 120, 22957-22971 (2016).

Förstel, M., Neustetter, M., Denifl, S., Lelievre, F., and Hergenhahn, U.: A source for microhydrated biomolecules. *Review of Scientific Instruments* 86, 073103 (2015).

Franck, E., Hörlzl, M., Lessig, A., and Sonnendrücker, E.: Energy Conservation and numerical stability for the reduced MHD models of the non-linear JOREK code. *ESAIM: Mathematical Modelling and Numerical Analysis (ESAIM: M2AN)* 49, 1331-1365 (2015).

Franck, E., and Mendoza, L. S.: Finite Volume Scheme with Local High Order Discretization of the Hydrostatic Equilibrium for the Euler Equations with External Forces. *Journal of Scientific Computing* 69, 314-354 (2016).

Franke, T., Barbato, E., Bosia, G., Cardinali, A., Ceccuzzi, S., Cesario, R., Van Eester, D., Federici, G., Gantenbein, G., Helou, W., Hillairet, J., Jenkins, I., Kazakov, Y. O., Kemp, R., Lerche, E., Mirizzi, F., Noterdaeme, J.-M., Poli, E., Porte, L., Ravera, L., Surrey, E., Tardini, G., Tran, M. Q., Tsironis, C., Tuccillo, A. A., Wenninger, R., Zohm, H., and EFDA PPP&T Team: Technological and physics assessments on heating and current drive systems for DEMO. *Fusion Engineering and Design* 96-97, 468-472 (2015).

Franzen, P., Fantz, U., Wunderlich, D., Heinemann, B., Riedl, R., Kraus, W., Fröschle, M., Ruf, B., Nocentini, R., and NNBI Team: Progress of the ELISE test facility: results of caesium operation with low RF power. *Nuclear Fusion* 55, 053005 (2015).

Franzen, P., Wunderlich, D., Riedl, R., Nocentini, R., Bonomo, F., Fantz, U., Fröschle, M., Heinemann, B., Martens, C., Kraus, W., Pimazzoni, A., Ruf, B., and NNBI Team: Status of the ELISE Test Facility. *AIP Conference Proceedings* 1655, 060001 (2015).

Frassinetti, L., Dodt, D., Beurskens, M. N. A., Sirinelli, A., Boom, J., Eich, T., Flanagan, J., Giroud, C., Jachmich, M. S., and Kempenaars, M.: Effect of nitrogen seeding on the energy losses and on the time scales of the electron temperature and density collapse of type-I ELMs in JET with the ITER-like wall. *Nuclear Fusion* 55, 023007 (2015).

Freathy, S., Conway, G. D., Classen, I., Creely, A. J., Happel, T., Köhn, A., Vanovac, B., and White, A. E.: Measurement of turbulent electron temperature fluctuations on the ASDEX Upgrade tokamak using correlated electron cyclotron emission. *Review of Scientific Instruments* 87, 11E102 (2016).

Frenod, E., Hirstoaga, S. A., Lutz, M., and Sonnendrücker, E.: Long Time Behaviour of an Exponential Integrator for a Vlasov-Poisson System with Strong Magnetic Field. *Communications in Computational Physics* 18, 263-296 (2015).

Frenod, E., Hirstoaga, S. A., and Sonnendrücker, E.: An exponential integrator for a highly oscillatory vlasov equation. *Discrete and Continuous Dynamical Systems. Series S* 8, 169-183 (2015).

Frerichs, H., Effenberg, F., Schmitz, O., Biedermann, C., Feng, Y., Jakubowski, M., König, R., Krychowiak, M., Lore, J., Niemann, H., Pedersen, T. S., Stehey, L., and Wurden, G. A.: Synthetic plasma edge diagnostics for EMC3-EIRENE, highlighted for Wendelstein 7-X. *Review of Scientific Instruments* 87, 11D441 (2016).

Frerichs, H., Schmitz, O., Evans, T., Feng, Y., and Reiter, D.: The pattern of parallel edge plasma flows due to pressure gradients, recycling, and resonant magnetic perturbations in DIII-D. *Physics of Plasmas* 22, 072508 (2015).

Frerichs, H., Schmitz, O., Waters, I., Canal, G. P., Evans, T. E., Feng, Y., and Soukhanovskii, V. A.: Exploration of magnetic perturbation effects on advanced divertor configurations in NSTX-U. *Physics of Plasmas* 23, 062517 (2016).

Friedl, R., and Fantz, U.: Temperature Dependence of the Work Function of Caesiated Materials under Ion Source Conditions. *AIP Conference Proceedings* 1655, 020004 (2015).

- Frigione, D., Garzotti, L., Lennholm, M., Alper, B., Artaserse, G., Bennett, P., Giovannozzi, E., Eich, T., Kocsis, G., Lang, P. T., Maddaluno, G., Mooney, R., Rack, M., Sips, G., Tvalashvili, G., Viola, B., Wilkes, D., and JET-EFDA Contributors: Divertor load footprint of ELMs in pellet triggering and pacing experiments at JET. *Journal of Nuclear Materials* 463, 714-717 (2015).
- Frosi, P., Mazzone, G., and You, J.-H.: Structural design of DEMO Divertor Cassette Body: provisional FEM analysis and introductory application of RCC-MRx design rules. *Fusion Engineering and Design* 109-111, Pt. A, 47-51 (2016).
- Fuchert, G., Birkenmeier, G., Ramisch, M., and Stroth, U.: Characterization of the blob generation region and blobby transport in a stellarator. *Plasma Physics and Controlled Fusion* 58, 054005 (2016).
- Fuchert, G., Carralero, D., Manz, P., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Towards a quantitative prediction of the blob detection rate. *Plasma Physics and Controlled Fusion* 58, 054006 (2016).
- Gao, L., Jacob, W., Meisl, G., Schwarz-Selinger, T., Höschen, T., Toussaint, U. von, and Dürbeck, T.: Interaction of deuterium plasma with sputter-deposited tungsten nitride films. *Nuclear Fusion* 56, 016004 (2016).
- Garavaglia, S., Bin, W., Bruschi, A., Granucci, G., Grossetti, G., Jelonnek, J., Moro, A., Rispoli, N., Strauss, D., Tran, Q. M., and Franke, T.: Preliminary conceptual design of DEMO EC system. *AIP Conference Proceedings* 1689, 090009 (2015).
- Garcia, A., Noterdaeme, J.-M., Fischer, U., and Dies, J.: Effect on the tritium breeding ratio for a distributed ICRF antenna in a DEMO reactor. *AIP Conference Proceedings* 1689, 070002 (2015).
- Garcia, J., Challis, C., Citrin, J., Doerk, H., Giruzzi, G., Görler, T., Jenko, F., Maget, P., and JET Contributors: Key impact of finite-beta and fast ions in core and edge tokamak regions for the transition to advanced scenarios. *Nuclear Fusion* 55, 053007 (2015).
- Garcia, L., Ochando, M. A., Carreras, B. A., Carralero, D., Hidalgo, C., and Milligen, B. P. van: Effect of fast electrons on the stability of resistive interchange modes in the TJ-II stellarator. *Physics of Plasmas* 23, 062319 (2016).
- Garland, S., Fuchert, G., Ramisch, M., and Hirth, T.: The structure and poloidal dynamics of blob filaments in TJ-K. *Plasma Physics and Controlled Fusion* 58, 044012 (2016).
- Gasparyan, Y. M., Ogorodnikova, O., Efimov, V. S., Mednikov, A., Marenkov, E. D., Pisarev, A. A., Markelj, S., and Čadež, I.: Thermal desorption from self-damaged tungsten exposed to deuterium atoms. *Journal of Nuclear Materials* 463, 1013-1016 (2015).
- Geiger, B., Weiland, M., Jacobsen, A. S., Rittich, D., Dux, R., Fischer, R., Hopf, C., Maraschek, M., McDermott, R., Nielsen, S. K., Odstrcil, T., Reich, M., Ryter, F., Salewski, M., Schneider, P. A., Tardini, G., and ASDEX Upgrade Team: Fast-ion transport and neutral beam current drive in ASDEX Upgrade. *Nuclear Fusion* 55, 083001 (2015).
- Geiger, B., Weiland, M., Mlynek, A., Reich, M., Bock, A., Dunne, M., Dux, R., Fable, E., Fischer, R., Garcia-Munoz, M., Hobirk, J., Hopf, C., Nielsen, S., Odstrcil, T., Rapson, C., Rittich, D., Ryter, F., Salewski, M., Schneider, P., Tardini, G., Willensdorfer, M., and ASDEX Upgrade Team: Quantification of the impact of large and small-scale instabilities on the fast-ion confinement in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 014018 (2015).
- Geiger, J., and TF Initial Physics Program of Wendelstein 7-X: Physics in the Magnetic Configuration Space of Wendelstein 7-X. *Plasma Physics and Controlled Fusion* 57, 014004 (2015).
- Giancarli, L. M., Barabash, V., Campbell, D. J., Chiocchio, S., Cordier, J.-J., Dammann, A., Dell'Orco, G., Elbez-Uzan, J., Fourneron, J. M., Friconneau, J. P., Gasparotto, M., Iseli, M., Jung, C.-Y., Kim, B.-Y., Lazarov, D., Levesy, B., Loughlin, M., Merola, M., Neviere, J.-C., Pascal, R., Ring, W., Schneiderova, I., Willms, S., Sierras, A., Shu, W., Snipes, J. A., and Laan, J. G. van der: Progress and challenges of the ITER TBM Program from the IO perspective. *Fusion Engineering and Design* 109-111, Pt. B, 1491-1497 (2016).
- Giannone, L., Fischer, R., McCarthy, P. J., Odstrcil, T., Zammuto, I., Bock, A., Conway, G. D., Fuchs, J. C., Gude, A., Igochine, V., Kallenbach, A., Lackner, K., Maraschek, M., Rapson, C., Ruan, Q., Schuhbeck, K. H., Suttrop, W., Wenzel, L., and ASDEX Upgrade Team: Improvements for real-time magnetic equilibrium reconstruction on ASDEX Upgrade. *Fusion Engineering and Design* 100, 519-524 (2015).
- Giannone, L., Geiger, B., Bilato, R., Maraschek, M., Odstrcil, T., Fischer, R., Fuchs, J. C., McCarthy, P. J., Mertens, V., and Schuhbeck, K. H.: Real-time diamagnetic flux measurements on ASDEX Upgrade. *Review of Scientific Instruments* 87, 053509 (2016).
- Girardo, J.-B., Sharapov, S., Boom, J., Dumont, R., Eriksson, J., Fitzgerald, M., Garbet, X., Hawkes, N., Kiptily, V., Lupelli, I., Mantsinen, M., Sarazin, Y., Schneider, M., and

JET Contributors: Stabilization of sawteeth with third harmonic deuterium ICRF-accelerated beam in JET plasmas. *Physics of Plasmas* 23, 012505 (2016).

Giroud, C., Jachmich, S., Jacquet, P., Järvinen, A., Lerche, E., Rimini, F., Aho-Mantila, L., Aiba, N., Balboa, I., Belo, P., Angioni, C., Beurskens, M., Brezinsek, S., Casson, F. J., Coffey, I., Cunningham, G., Delabie, E., Devaux, S., Dreweelow, P., Frassinetti, L., Figueiredo, A., Huber, A., Hillesheim, J., Garzotti, L., Goniche, M., Groth, M., Kim, H.-T., Leyland, M., Lomas, P., Maddison, G., Marsen, S., Matthews, G., Meigs, A., Menmuir, S., Puetterich, T., Rooij, G. van, Saarelma, S., Stamp, M., Urano, H., Webster, A., and JET EFDA Contributors: Progress at JET in integrating ITER-relevant core and edge plasmas within the constraints of an ITER-like wall. *Plasma Physics and Controlled Fusion* 57, 035004 (2015).

Giruzzi, G., Artaud, J.-F., Baruzzo, M., Bolzonella, T., Fable, E., Garzotti, L., Ivanova-Stanik, I., Kemp, R., King, D. B., Schneider, M., Stankiewicz, R., Stepniewski, W., Vincenzi, P., Ward, D., and Zagorski, R.: Modelling of pulsed and steady-state DEMO scenarios. *Nuclear Fusion* 55, 073002 (2015).

Görler, T., Tronko, N., Hornsby, W. A., Bottino, A., Kleiber, R., Norscini, C., Grandgirard, V., Jenko, F., and Sonnendrücker, E.: Intercode comparison of gyrokinetic global electromagnetic modes. *Physics of Plasmas* 23, 072503 (2016).

Görler, T., White, A. E., Told, D., Jenko, F., Holland, C., and Rhodes, T. L.: On the Validation of Gyrokinetic L-Mode Simulations. *Fusion Science and Technology* 69, 537-545 (2016).

Gradic, D., Dinklage, A., Brakel, R., McNeely, P., Osakabe, M., Rust, N., Wolf, R., W7-X Team, and LHD Experimental Group: Assessment of the plasma start-up in Wendelstein 7-X with neutral beam injection. *Nuclear Fusion* 55, 033002 (2015).

Grand, D., Le Brun, C., Vidil, R., and Wagner, F.: Electricity production by intermittent renewable sources: a synthesis of French and German studies. *The European Physical Journal Plus* 131, 329 (2016).

Graves, J. P., Lennholm, M., Chapman, I. T., Lerche, E., Reich, M., Alper, B., Bobkov, V., Dumont, R., Faustin, J. M., Jacquet, P., Jaulmes, F., Johnson, T., Keeling, D. L., Liu, Y., Nicolas, T., Tholerus, S., Blackman, T., Carvalho, I. S., Coelho, R., Van Eester, D., Felton, R., Goniche, M., Kiptily, V., Monakhov, I., Nave, M. F. F., Perez von Thun, C., Sabot, R., Sozzi, C., and Tsallas, M.: Sawtooth control in JET with ITER relevant low field side resonance ion cyclotron resonance heating and ITER-like wall. *Plasma Physics and Controlled Fusion* 57, 014033 (2015).

Greuner, H., Zivelonghi, A., Böswirth, B., and You, J.-H.: Results of high heat flux testing of W/CuCrZr multilayer composites with percolating microstructure for plasma-facing components. *Fusion Engineering and Design* 98-99, 1310-1313 (2015).

Grigorev, P., Buzi, L., Bakaeva, A., Terentyev, D., De Temmerman, G., Van Oost, G., and Noterdaeme, J.-M.: Numerical analysis of TDS spectra under high and low flux plasma exposure conditions. *Physica Scripta* T167, 014039 (2016).

Grigorev, P., Matveev, D., Bakaeva, A., Terentyev, D., Zhurkin, E. E., Van Oost, G., and Noterdaeme, J.-M.: Modeling deuterium release from tungsten after high flux high temperature deuterium plasma exposure. *Journal of Nuclear Materials* 481, 181-189 (2016).

Grigorev, P., Terentyev, D., Bonny, G., Zhurkin, E. E., Oost, G. van, and Noterdaeme, J.-M.: Mobility of hydrogen-helium clusters in tungsten studied by molecular dynamics. *Journal of Nuclear Materials* 474, 143-149 (2016).

Groselj, D., Jenko, F., and Frey, E.: How turbulence regulates biodiversity in systems with cyclic competition. *Physical Review E* 91, 033009 (2015).

Groth, M., Brezinsek, S., Belo, P., Brix, M., Calabro, G., Chankin, A., Clever, M., Coenen, J. W., Corrigan, G., Dreweelow, P., Guillemaut, C., Harting, D., Huber, A., Jachmich, S., Järvinen, A., Kruezi, U., Lawson, K. D., Lehnen, M., Maggi, C. F., Marchetto, C., Marsen, S., Maviglia, F., Meigs, A. G., Moulton, D., Silva, C., Stamp, M. F., Wiesen, S., and EFDA-JET Contributors: Divertor plasma conditions and neutral dynamics in horizontal and vertical divertor configurations in JET-ILW low confinement mode plasmas. *Journal of Nuclear Materials* 463, 471-476 (2015).

Gschwendtner, E., Adli, E., Amorim, L., Apsimon, R., Assmann, R., Bachmann, A.-M., Batsch, F., Bauche, J., Berglyd Olsen, V. K., Bernardini, M., Bingham, R., Biskup, B., Bohl, T., Bracco, C., Burrows, P. N., Burt, G., Buttenschön, B., Butterworth, A., Caldwell, A., Cascella, M., Chevallay, E., Cipiccia, S., Damerau, H., Deacon, L., Dirksen, P., Doeberl, S., Dorda, U., Farmer, J., Fedosseev, V., Feldbaumer, E., Fiorito, R., Fonseca, R., Friebel, F., Gorn, A. A., Grulke, O., Hansen, J., Hessler, C., Hofle, W., Holloway, J., Hüther, M., Jaroszynski, D., Jensen, L., Jolly, S., Joulaei, A., Kasim, M., Keeble, F., Li, Y., Liu, S., Lopes, N., Lotov, K. V., Mandry, S., Martorelli, R., Martyanov, M., Mazzoni, S., Mete, O., Minakov, V. A., Mitchell, J., Moody, J., Muggli, P., Najmudin, Z., Norreys, P., Öz, E., Pardons, A., Pepitone, K., Petrenko, A., Plyushchev, G., Pukhov, A., Rieger, K., Ruhl, H., Salveter, F., Savard, N., Schmidt, J., Seryi, A., Shaposhnikova, E., Sheng, Z. M.,

- Sherwood, P., Silva, L., Soby, L., Sosedkin, A. P., Spitsyn, R. I., Trines, R., Tuev, P. V., Turner, M., Verzilov, V., Vieira, J., Vincke, H., Wei, Y., Welsch, C. P., Wing, M., Xia, G., and Zhang, H.: AWAKE, The Advanced Proton Driven Plasma Wakefield Acceleration Experiment at CERN. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 829, 76-82 (2016).
- Gude, A.: Identification of MHD Instabilities in Experiments. In: Active Control of Magneto-hydrodynamic Instabilities in Hot Plasmas, (Ed.) V. Igochine. Springer Series on Atomic, Optical, and Plasma Physics 83. Springer, Berlin, Heidelberg, 53-104 (2015).
- Guillemaut, C., Jardin, A., Horacek, J., Autricque, A., Arnoux, G., Boom, J., Brezinsek, S., Coenen, J. W., De La Luna, E., and Devaux, S.: Ion target impact energy during Type I edge localized modes in JET ITER-like Wall. Plasma Physics and Controlled Fusion 57, 085006 (2015).
- Guillemaut, C., Jardin, A., Horacek, J., Borodkina, I., Autricque, A., Arnoux, G., Boom, J., Brezinsek, S., Coenen, J. W., De La Luna, E., Devaux, S., Eich, T., Harting, D., Kirschner, A., Lipschultz, B., Matthews, G. F., Meigs, A., Moulton, D., O'Mullane, M., Stamp, M., and JET Contributors: Experimental estimation of tungsten impurity sputtering due to Type I ELMs in JET-ITER-like wall using pedestal electron cyclotron emission and target Langmuir probe measurements. Physica Scripta T167, 014005 (2016).
- Günter, S., Yu, Q., Lackner, K., Bhattacharjee, A., and Huang, Y.-M.: Fast sawtooth reconnection at realistic Lundquist numbers. Plasma Physics and Controlled Fusion 57, 014017 (2015).
- Gusev, V. K., Bakharev, N. N., Belyakov, V. A., Ber, B. Y., Bondarchuk, E. N., Bulanin, V. V., Bykov, A. S., Chernyshov, F. V., Demina, E. V., Dyachenko, V. V., Goncharov, P. R., Gorodetsky, A. E., Gusakov, E. Z., Iblyaminova, A. D., Ivanov, A. A., Irzak, M. A., Kaveeva, E. G., Khitrov, S. A., Khokhlov, M. V., Khromov, N. A., Kolmogorov, V. V., Kornev, V. A., Krasnov, S. V., Kurskiv, G. S., Labusov, A. N., Lepikhov, S. A., Litunovsky, N. V., Mazul, I. V., Melnik, A. D., Mikov, V. V., Minaev, V. B., Mineev, A. B., Mironov, M. I., Miroshnikov, I. V., Mukhin, E. E., Novokhatksky, A. N., Ovsyannikov, A. D., Patrov, M. I., Petrov, A. V., Petrov, Y. V., Rozhansky, V. A., Sakharov, N. V., Saveliev, A. N., Senichenkov, I. Y., Sergeev, V. Y., Shchegolev, P. B., Shcherbinin, O. N., Shikhovtsev, I. V., Tanaev, V. S., Tanchuk, V. N., Tolstyakov, S. Y., Varfolomeev, V. I., Vekshina, E. O., Voronin, A. V., Voskoboinikov, S. P., Wagner, F., Yashin, A. Y., Zadvitskiy, G. V., Zakharov, A. P., Zalayutdinov, R. K., and Zhilin, E. G.: Review of Globus-M spherical tokamak results. Nuclear Fusion 55, 104016 (2015).
- Hakola, A., Airila, M. I., Karhunen, J., Groth, M., Herrmann, A., Krieger, K., Kurki-Suonio, T., Meisl, G., Oberkofler, M., Neu, R., Potzel, S., Rohde, V., and ASDEX Upgrade Team: Gross and net erosion of tungsten in the outer strike-point region of ASDEX Upgrade. Physica Scripta T167, 014026 (2016).
- Hakola, A., Koivuranta, S., Likonen, J., Herrmann, A., Maier, H., Mayer, M., Neu, R., Rohde, V., and ASDEX Upgrade Team: Erosion of tungsten and steel in the main chamber of ASDEX Upgrade. Journal of Nuclear Materials 463, 162-165 (2015).
- Halpern, F. D., Ricci, P., Jollet, S., Loizu, J., Morales, J., Mosetto, A., Musil, F., Riva, F., Tran, T. M., and Wersal, C.: The GBS code for tokamak scrape-off layer simulations. Journal of Computational Physics 315, 388-408 (2016).
- Hamaji, Y., Lee, H. T., Torikai, Y., Sugiyama, K., and Ueda, Y.: Gaseous tritium uptake by C deposition layer on tungsten. Journal of Nuclear Materials 463, 1017-1020 (2015).
- Hammond, K. C., Anichowski, A., Brenner, P. W., Pedersen, T. S., Raftopoulos, S., Traverso, P., and Volpe, F. A.: Experimental and numerical study of error fields in the CNT stellarator. Plasma Physics and Controlled Fusion 58, 074002 (2016).
- Hans, A., Schmidt, P., Förstel, M., Hergenhahn, U., Ltaief, L. B., Huckfeldt, H., Ozga, C., Reiß, P., Knie, A., and Ehresmann, A.: Lyman series emission of valence and inner-shell excited gaseous H₂O. Journal of Physics: Conference Series 635, 112133 (2015).
- Hans, A., Knie, A., Förstel, M., Schmidt, P., Reiß, P., Ozga, C., Hergenhahn, U., and Ehresmann, A.: Determination of absolute cross sections for cluster-specific decays. Journal of Physics B: Atomic, Molecular and Optical Physics 49, 105101 (2016).
- Hans, A., Knie, A., Schmidt, P., Ben Ltaief, L., Ozga, C., Reiß, P., Huckfeldt, H., Förstel, M., Hergenhahn, U., and Ehresmann, A.: Lyman-series emission after valence and core excitation of water vapor. Physical Review A 92, 032511 (2015).
- Happel, T., Banon Navarro, A., Conway, G. D., Angioni, C., Bernert, M., Dunne, M., Fable, E., Geiger, B., Görler, T., Jenko, F., McDermott, R., Ryter, F., Stroth, U., and ASDEX Upgrade Team: Core turbulence behavior moving from ion-temperature-gradient regime towards trapped-electron-mode regime in the ASDEX Upgrade tokamak and comparison with gyrokinetic simulation. Physics of Plasmas 22, 032503 (2015).

Happel, T., Manz, P., Ryter, F., Hennequin, P., Hetzeneker, A., Conway, G. D., Guimarais, L., Honoré, C., Stroth, U., Viezzier, E., and ASDEX Upgrade Team: Turbulence intermittency linked to the weakly coherent mode in ASDEX Upgrade I-mode plasmas. *Nuclear Fusion* 56, 064004 (2016).

Harting, D. M., Wiesen, S., Groth, M., Brezinsek, S., Corrigan, G., Arnoux, G., Boerner, P., Devaux, S., Flanagan, J., Järvinen, A., Marsen, S., Reiter, D., and JET-EFDA Contributors: Intra-ELM phase modelling of a JET ITER-like wall H-mode discharge with EDGE2D-EIRENE. *Journal of Nuclear Materials* 463, 493-497 (2015).

Härtl, T., Rohde, V., Mertens, V., and ASDEX Upgrade Team: Status and perspectives of the ASDEX Upgrade gas inlet system. *Fusion Engineering and Design* 96-97, 265-268 (2015).

Haskey, S. R., Blackwell, B. D., Nührenberg, C., Könies, A., Bertram, J., Michael, C., Hole, M. J., and Howard, J.: Experiment-theory comparison for low frequency BAE modes in the strongly shaped H-1NF stellarator. *Plasma Physics and Controlled Fusion* 57, 095011 (2015).

Hatano, Y., Alimov, V. K., Spitsyn, A. V., Bobyr, N. P., Cherkez, D. I., Abe, S., Ogorodnikova, O. V., Klimov, N. S., Khripunov, B. I., Golubeva, A. V., Chernov, V. M., Oyaidzu, M., Yamanishi, T., and Matsuyama, M.: Tritium Retention in Reduced-activation Ferritic/Martensitic Steels. *Fusion Science and Technology* 67, 361-364 (2015).

Hatch, D. R., Jenko, F., Banon Navarro, A., Bratanov, V., Terry, P. W., and Pueschel, M. J.: Linear signatures in non-linear gyrokinetics: interpreting turbulence with pseudo-spectra. *New Journal of Physics* 18, 075018 (2016).

Hatch, D. R., Kotschenreuther, M., Mahajan, S., Valanju, P., Jenko, F., Told, D., Görler, T., and Saarelma, S.: Micro-tearing turbulence limiting the JET-ILW pedestal. *Nuclear Fusion* 56, 104003 (2016).

Hatch, D. R., Told, D., Jenko, F., Doerk, H., Dunne, M., Wolfrum, E., Viezzier, E., Pueschel, M. J., and ASDEX Upgrade Team: Gyrokinetic study of ASDEX Upgrade inter-ELM pedestal profile evolution. *Nuclear Fusion* 55, 063028 (2015).

Havlickova, E., Harrison, J., Lipschultz, B., Fishpool, G., Kirk, A., Thornton, A., Wischmeier, M., Elmore, S., and Allan, S.: SOLPS analysis of the MAST-U divertor with the effect of heating power and pumping on the access to detachment in the Super-x configuration. *Plasma Physics and Controlled Fusion* 57, 115001 (2015).

Havlickova, E., Wischmeier, M., Lipschultz, B., and Fishpool, G.: The effect of the Super-X divertor of MAST Upgrade on impurity radiation as modelled by SOLPS. *Journal of Nuclear Materials* 463, 1209-1213 (2015).

Heinemann, B., Fröschle, M., Falter, H.-D., Fantz, U., Franzen, P., Kraus, W., Nocentini, R., Riedl, R., and Ruf, B.: Upgrade of the BATMAN Test Facility for H⁻ Source Development. *AIP Conference Proceedings* 1655, 060003 (2015).

Heinola, K., Widdowson, A., Likonen, J., Alves, E., Baron-Wiechec, A., Barradas, N., Brezinsek, S., Catarino, N., Coad, P., Koivuranta, S., Krat, S., Matthews, G. F., Mayer, M., Petersson, P., and JET Contributors: Long-term fuel retention in JET ITER-like wall. *Physica Scripta* T167, 014075 (2016).

Heinola, K., Widdowson, A., Likonen, J., Alves, E., Baron-Wiechec, A., Barradas, N., Brezinsek, S., Catarino, N., Coad, P., Koivuranta, S., Matthews, G. F., Mayer, M., Petersson, P., and JET-EFDA Contributors: Fuel retention in JET ITER-like wall from post-mortem analysis. *Journal of Nuclear Materials* 463, 961-965 (2015).

Helander, P.: Runaway electrons and Bremsstrahlung. *New Journal of Physics* 18, 091001 (2016).

Helander, P., Bird, T., Jenko, F., Kleiber, R., Plunk, G. G., Proll, J. H. E., Riemann, J., and Xanthopoulos, P.: Advances in stellarator gyrokinetics. *Nuclear Fusion* 55, 053030 (2015).

Helander, P., and Connor, J. W.: Gyrokinetic stability theory of electron-positron plasmas. *Journal of Plasma Physics* 82, 905820301 (2016).

Helander, P., and Plunk, G. G.: The universal instability in general geometry. *Physics of Plasmas* 22, 090706 (2015).

Helbig, C., Bradshaw, A. M., Kolotzek, C., Thorenz, A., and Tum, A.: Supply risks associated with CdTe and CIGS thin-film photovoltaics. *Applied Energy* 178, 422-433 (2016).

Held, M., Wiesenberger, M., and Stegmeir, A.: Three discontinuous Galerkin schemes for the anisotropic heat conduction equation on non-aligned grids. *Computer Physics Communications* 199, 29-39 (2016).

Helou, W., Colas, L., Hillairet, J., Milanesio, D., Mollard, P., Argouarch, A., Berger-By, G., Bernard, J.-M., Chen, Z., Delaplanche, J.-M., Dumortier, P., Durodié, F., Ekedahl, A., Fedorczak, N., Ferlay, F., Goniche, M., Jacquot, J., Joffrin, E., Litaudon, X., Lombard, G., Maggiore, R., Magne, R., Patterlini, J.-C., Prou, M., Volpe, R., Vulliez, K., and Winkler, K.: Radio-frequency electrical design of the WEST long pulse

- and load-resilient ICRH launchers. *Fusion Engineering and Design* 96-97, 473-476 (2015).
- Hender, T. C., Buratti, P., Casson, F. J., Alper, B., Baranov, Y. F., Baruzzo, M., Challis, C. D., Koechl, F., Lawson, K. D., Marchetto, C., Nave, M. F. F., Pütterich, T., Reyes Cortes, S., and JET Contributors: The role of MHD in causing impurity peaking in JET hybrid plasmas. *Nuclear Fusion* 56, 066002 (2016).
- Henderson, M., Saibene, G., Darbos, C., Farina, D., Figini, L., Gagliardi, M., Gandini, F., Gassmann, T., Hanson, G., Loarte, A., Omori, T., Poli, E., Purohit, D., and Takahashi, K.: The targeted heating and current drive applications for the ITER electron cyclotron system. *Physics of Plasmas* 22, 021808 (2015).
- Herrmann, A., Greuner, H., Jaksic, N., Balden, M., Kallenbach, A., Krieger, K., Marné, P. de, Rohde, V., Scarabosio, A., Schall, G., and ASDEX Upgrade Team: Solid tungsten Divertor-III for ASDEX Upgrade and contributions to ITER. *Nuclear Fusion* 55, 063015 (2015).
- Herrmann, A., Jaksic, N., Leitenstern, P., Greuner, H., Krieger, K., Marné, P. de, Oberkofler, M., Rohde, V., Schall, G., and ASDEX Upgrade Team: A large divertor manipulator for ASDEX Upgrade. *Fusion Engineering and Design* 98-99, 1496-1499 (2015).
- Herrmann, A., Sieglin, B., Faitsch, M., and ASDEX Upgrade Team: Surface Temperature Measurement of In-Vessel Components and its Real-Time Validation. *Fusion Science and Technology* 69, 569-579 (2016).
- Heuraux, S., Silva, F. da, Ribeiro, T., Despres, B., Campos Pinto, M., Jacquot, J., Faudot, E., Wengerowsky, S., Colas, C., and Lu, L.: Simulation as a tool to improve wave heating in fusion plasmas. *Journal of Plasma Physics* 81, 435810503 (2015).
- Hillairet, J., Mollard, P., Zhao, Y., Bernard, J.-M., Song, Y., Argouarch, A., Berger-Bye, G., Charabot, N., Chen, G., Chen, Z., Colas, L., Delaplanche, J.-M., Dumortier, P., Durodié, F., Ekedahl, A., Fedorczak, N., Ferlay, F., Goniche, M., Hatchressian, J.-C., Helou, W., Jacquot, J., Joffrin, E., Litaudon, X., Lombard, G., Maggiore, R., Magne, R., Milanesio, D., Patterlini, J.-C., Prou, M., Verger, J., Volpe, R., Vulliez, K., Wang, Y., Winkler, K., Yang, Q., and Yuan, S.: Ion cyclotron resonance heating systems upgrade toward high power and CW operations in WEST. *AIP Conference Proceedings* 1689, 070005 (2015).
- Hillesheim, J. C., Delabie, E., Meyer, H., Maggi, C. F., Meneses, L., Poli, E., and JET Contributors: Stationary Zonal Flows during the Formation of the Edge Transport Barrier in the JET Tokamak. *Physical Review Letters* 116, 065002 (2016).
- Hoenen, O., Coster, D., Petruczynik, S., and Plociennik, M.: Coupled Simulations in Plasma Physics with the Integrated Plasma Simulator Platform. *Procedia Computer Science* 51, 1138-1147 (2015).
- Hogeweij, G. M. D., Calabro, G., Sips, A. C. C., Maggi, C. F., De Tommasi, G. M., Joffrin, E., Loarte, A., Maviglia, F., Mlynar, J., Rimini, F. G., Pütterich, T., and JET EFDA Contributors: ITER-like current ramps in JET with ILW: experiments, modelling and consequences for ITER. *Nuclear Fusion* 55, 013009 (2015).
- Hogeweij, G. M. D., Leonov, V., Schweinzer, J., Sips, A. C. C., Angioni, C., Calabro, G., Dux, R., Kallenbach, A., Lerche, E., Maggi, C., Pütterich, T., and ITPA Integrated Operating Scenarios Topical Group, ASDEX Upgrade Team, and JET Contributors: Impact of W on scenario simulations for ITER. *Nuclear Fusion* 55, 063031 (2015).
- Hölbe, H., Pedersen, T. S., Geiger, J., Bozhenkov, S., König, R., Feng, Y., Lore, J., Lumsdaine, A., and W7-X Team: Access to edge scenarios for testing a scraper element in early operation phases of Wendelstein 7-X. *Nuclear Fusion* 56, 026015 (2016).
- Hollmann, E. M., Aleynikov, P. B., Fülöp, T., Humphreys, D. A., Izzo, V. A., Lehnen, M., Lukash, V. E., Papp, G., Pautasso, G., Saint-Laurent, F., and Snipes, J. A.: Status of research toward the ITER disruption mitigation system. *Physics of Plasmas* 22, 021802 (2015).
- Horacek, J., Pitts, R. A., Adamek, J., Arnoux, G., Bak, J.-G., Brezinsek, S., Dimitrova, M., Goldston, R. J., Gunn, J. P., Havlicek, J., Hong, S.-H., Janky, F., LaBombard, B., Marsen, S., Maddaluno, G., Nie, L., Pericoli, V., Popov, T., Panek, R., Rudakov, D., Seidl, J., Seo, D. S., Shimada, M., Silva, C., Stangeby, P. C., Viola, B., Vondracek, P., Wang, H., Xu, G. S., Xu, Y., and JET Contributors: Multi-machine scaling of the main SOL parallel heat flux width in tokamak limiter plasmas. *Plasma Physics and Controlled Fusion* 58, 074005 (2016).
- Hornsby, W. A., Migliano, P., Buchholz, R., Grosshauser, S., Weikl, A., Zarzoso, D., Casson, F. J., Poli, E., and Peeters, A. G.: The non-linear evolution of the tearing mode in electromagnetic turbulence using gyrokinetic simulations. *Plasma Physics and Controlled Fusion* 58, 014028 (2016).
- Hornsby, W. A., Migliano, P., Buchholz, R., Kroenert, L., Weikl, A., Peeters, A. G., Zarzoso, D., Poli, E., and Casson, F. J.: The linear tearing instability in three dimensional, toroidal gyro-kinetic simulations. *Physics of Plasmas* 22, 022118 (2015).

Hornsby, W. A., Migliano, P., Buchholz, R., Zarzoso, D., Casson, F. J., Poli, E., and Peeters, A. G.: On seed island generation and the non-linear interaction of the tearing mode with electromagnetic gyro-kinetic turbulence. *Plasma Physics and Controlled Fusion* 57, 054018 (2015).

Horvath, L., Papp, G., Lauber, P., Por, G., Gude, A., Igochine, V., Geiger, B., Maraschek, M., Guimarais, L., Nikolaeva, V., Pokol, G. I., and ASDEX Upgrade Team: Experimental investigation of the radial structure of energetic particle driven modes. *Nuclear Fusion* 56, 112003 (2016).

Horvath, L., Zs Poloskei, P., Papp, G., Maraschek, M., Schuhbeck, K.-H., Pokol, G. I., EUROfusion MST1 Team, and ASDEX Upgrade Team: Reducing systematic errors in time-frequency resolved mode number analysis. *Plasma Physics and Controlled Fusion* 57, 125005 (2015).

Höschen, C., Höschen, T., Mueller, C. W., Lugmeier, J., Elgeti, S., Rennert, T., and Kögel-Knabner, I.: Novel Sample Preparation Technique to Improve Spectromicroscopic Analyses of Micro-meter-Sized Particles. *Environmental Science & Technology* 49, 9874-9880 (2015).

Hu, Q., Li, J., Wang, N., Yu, Q., Chen, J., Cheng, Z., Chen, Z., Ding, Y., Jin, H., Li, D., Li, M., Liu, Y., Rao, B., Zhu, L., Zhuang, G., and J-TEXT Team: Plasma response to m/n=3/1 resonant magnetic perturbation at J-TEXT Tokamak. *Nuclear Fusion* 56, 092009 (2016).

Hu, Q., Wang, N., Yu, Q., Ding, Y., Rao, B., Chen, Z., and Jin, H.: Research on the effect of resonant magnetic perturbations on disruption limit in J-TEXT tokamak. *Plasma Physics and Controlled Fusion* 58, 025001 (2016).

Hu, Q., and Yu, Q.: Suppressing magnetic island and accelerating its rotation by modulated resonant magnetic perturbation. *Nuclear Fusion* 56, 034001 (2016).

Hubbard, A. E., Osborne, T., Ryter, F., Austin, M., Barrera Orte, L., Churchill, R. M., Cziegler, I., Fenstermacher, M., Fischer, R., Gerhardt, S., Groebner, R., Gohil, P., Happel, T., Hughes, J. W., Loarte, A., Maingi, R., Manz, P., Marinoni, A., Marmar, E. S., McDermott, R. M., McKee, G., Rhodes, T. L., Rice, J. E., Schmitz, L., Theiler, C., Viezzzer, E., Walk, J. R., White, A., Whyte, D., Wolfe, S., Wolfrum, E., Yan, Z., Alcator C-Mod Team, ASDEX Upgrade Team, and DIII-D Team: Multi-device studies of pedestal physics and confinement in the I-mode regime. *Nuclear Fusion* 56, 086003 (2016).

Huber, A., Brezinsek, S., Sergienko, G., Groth, M., Vries, P. C. de, Aho-Mantila, L., Arnoux, G., Bernert, M., Beurskens, M. N. A., Calabro, G., Clever, M., Esser, H. G., Guillemaut, C.,

Jachmich, S., Järvinen, A., Linsmeier, Ch., Matthews, G. F., Meigs, A. G., Mertens, P., Philipps, V., Stamp, M., Wischmeier, M., Wiesen, S., and JET-EFDA Contributors: Density limit of H-mode plasmas on JET-ILW. *Journal of Nuclear Materials* 463, 445-449 (2015).

Huber, V., Huber, A., Kinna, D., Balboa, I., Collins, S., Conway, N., Drewelow, P., Maggi, C. F., Matthews, G. F., Meigs, A. G., Mertens, P., Price, M., Sergienko, G., Silburn, S., Wynn, A., and Zastrow, K.-D.: In-vessel calibration of the imaging diagnostics for the real-time protection of the JET ITER-like wall. *Review of Scientific Instruments* 87, 11D430 (2016).

Huebner, S., Miyakawa, N., Kapser, S., Pahlke, A., and Kreupl, F.: High Performance X-ray Transmission Windows Based on Graphenic Carbon. *IEEE Transactions on Nuclear Science* 62, 588-593 (2015).

Humphreys, D., Ambrosino, G., Vries, P. de, Felici, F., Kim, S. H., Jackson, G., Kallenbach, A., Kolemen, E., Lister, J., Moreau, D., Pironti, A., Raupp, G., Sauter, O., Schuster, E., Snipes, J., Treutterer, W., Walker, M., Welander, A., Winter, A., and Zabeo, L.: Novel aspects of plasma control in ITER. *Physics of Plasmas* 22, 021806 (2015).

Ida, K., Nagaoka, K., Inagaki, S., Kasahara, H., Evans, T., Yoshinuma, M., Kamiya, K., Ohdach, S., Osakabe, M., Kobayashi, M., Sudo, S., Itoh, K., Akiyama, T., Emoto, M., Dinklage, A., Du, X., Fujii, K., Goto, M., Goto, T., Hasuo, M., Hidalgo, C., Ichiguchi, K., Ishizawa, A., Jakubowski, M., Kawamura, G., Kato, D., Morita, S., Mukai, K., Murakami, I., Murakami, S., Narushima, Y., Nunami, M., Ohno, N., Pablant, N., Sakakibara, S., Seki, T., Shimozuma, T., Shoji, M., Tanaka, K., Tokuzawa, T., Todo, Y., Wang, H., Yokoyama, M., Yamada, H., Takeiri, Y., Mutoh, T., Imagawa, S., Mito, T., Nagayama, Y., Watanabe, K. Y., Ashikawa, N., Chikaraishi, H., Ejiri, A., Furukawa, M., Fujita, T., Hamaguchi, S., Igami, H., Isobe, M., Masuzaki, S., Morisaki, T., Motojima, G., Nagasaki, K., Nakano, H., Oya, Y., Suzuki, C., Suzuki, Y., Sakamoto, R., Sakamoto, M., Sanpei, A., Takahashi, H., Tsuchiya, H., Tokitani, M., Ueda, Y., Yoshimura, Y., Yamamoto, S., Nishimura, K., Sugama, H., Yamamoto, T., Idei, H., Isayama, A., Kitajima, S., Masamune, S., Shinohara, K., Bawankar, P. S., Bernard, E., Berkel, M. von, Funaba, H., Huang, X. L., Ii, T., Ido, T., Ikeda, K., Kamio, S., Kumazawa, R., Kobayashi, T., Moon, C., Muto, S., Miyazawa, J., Ming, T., Nakamura, Y., Nishimura, S., Ogawa, K., Ozaki, T., Oishi, T., Ohno, M., Pandya, S., Shimizu, A., Seki, R., Sano, R., Saito, K., Sakaue, H., Takemura, Y., Tsumori, K., Tamura, N., Tanaka, H., Toi, K., Wieland, B., Yamada, I., Yasuhara, R., Zhang, H., Kaneko, O., Komori, A., and Collaborators: Overview of transport and MHD stability study: focusing on the impact of magnetic

field topology in the Large Helical Device. *Nuclear Fusion* 55, 104018 (2015).

Igochine, V. (Ed.): Active Control of Magneto-hydrodynamic Instabilities in Hot Plasmas. Springer Series on Atomic, Optical, and Plasma Physics 83. Springer, Berlin, Heidelberg, 342 p. (2015).

Igochine, V.: Magneto-Hydrodynamics and Operational Limits. In: Active Control of Magneto-hydrodynamic Instabilities in Hot Plasmas, (Ed.) V. Igochine. Springer Series on Atomic, Optical, and Plasma Physics 83. Springer, Berlin, Heidelberg, 9-51(2015).

Igochine, V.: Resistive Wall Mode (RWM). In: Active Control of Magneto-hydrodynamic Instabilities in Hot Plasmas, (Ed.) V. Igochine. Springer Series on Atomic, Optical, and Plasma Physics 83. Springer, Berlin, Heidelberg, 183-226 (2015).

Iijima, N., Miyamoto, M., Nishijima, D., Baldwin, M. J., Doerner, R. P., Ueda, Y., Sagara, A., and Höschen, T.: Effect of temperature on microstructures and retention properties in tungsten exposed to D + He + Be mixture plasmas in PISCES. *Journal of Nuclear Materials* 463, 979-982 (2015).

Ikeda, K., Wunderlich, D., Fantz, U., Heinemann, B., Kisaki, M., Nagaoka, K., Nakano, H., Osakabe, M., Tsumori, K., Geng, S., Kaneko, O., and Takeiri, Y.: Installation of spectrally selective imaging system in RF negative ion source. *Review of Scientific Instruments* 87, 02B113 (2016).

Innocente, P., Barbato, P., Farthing, J., Giruzzi, G., Ide, S., Imbeaux, F., Joffrin, E., Kamada, Y., Kühner, G., Naito, O., Urano, H., and Yoshida, M.: Requirements for tokamak remote operation: Application to JT-60SA. *Fusion Engineering and Design* 96-97, 799-802 (2015).

Jablonski, S., Czarnecka, A., Kubkowska, M., Ryc, L., Weller, A., Biedermann, C., König, R., and W7-X Team: Simulation of pulse height analysis soft X-ray spectra expected from W7-X. *Journal of Instrumentation* 10, P10021 (2015).

Jacobsen, A. S., Salewski, M., Geiger, B., Korsholm, S. B., Leipold, F., Nielsen, S. K., Rasmussen, J., Stejner, M., Weiland, M., and ASDEX Upgrade Team: Benchmark and combined velocity-space tomography of fast-ion D-alpha spectroscopy and collective Thomson scattering measurements. *Plasma Physics and Controlled Fusion* 58, 042002 (2016).

Jacobsen, A. S., Stagner, L., Salewski, M., Geiger, B., Heidbrink, W. W., Korsholm, S. B., Leipold, F., Nielsen, S. K., Rasmussen, J., Stejner, M., Thomsen, H., Weiland, M., and ASDEX Upgrade Team: Inversion methods for fast-ion

velocity-space tomography in fusion plasmas. *Plasma Physics and Controlled Fusion* 58, 045016 (2016).

Jacquet, P., Goniche, M., Bobkov, V., Lerche, E., Pinsker, R. I., Pitts, R. A., Zhang, W., Colas, L., Hosea, J., Moriyama, S., Wang, S.-J., Wukitch, S., Zhang, X., Bilato, R., Bufferand, H., Guimarais, L., Faugel, H., Hanson, G. R., Kocan, M., Monakhov, I., Noterdaeme, J.-M., Petrzikla, V., Shaw, A., Stepanov, I., Sips, A. C. C., Van Eester, D., Wauters, T., JET Contributors, ASDEX Upgrade Team, DIII-D Team, and ITPA “Integrated Operation Scenarios” Members and Experts: Maximization of ICRF power by SOL density tailoring with local gas injection. *Nuclear Fusion* 56, 046001 (2016).

Jacquot, J., Bobkov, V., Colas, L., Heuraux, S., Krivska, A., Lu, L., Noterdaeme, J.-M., Tore Supra Team, and ASDEX Upgrade Team: Full wave propagation modelling in view to integrated ICRH wave coupling/RF sheaths modelling. *AIP Conference Proceedings* 1689, 050008 (2015).

Jaervinen, A. E., Brezinsek, S., Giroud, C., Groth, M., Guillemaut, C., Belo, P., Brix, M., Corrigan, G., Drewelow, P., Harting, D., Huber, A., Lawson, K. D., Lipschultz, B., Maggi, C. F., Matthews, G. F., Meigs, A. G., Moulton, D., Stamp, M. F., Wiesen, S., and JET Contributors: Impact of divertor geometry on radiative divertor performance in JET H-mode plasmas. *Plasma Physics and Controlled Fusion* 58, 045011 (2016).

Jaervinen, A. E., Giroud, C., Groth, M., Belo, P., Brezinsek, S., Beurskens, M., Corrigan, G., Devaux, S., Drewelow, P., Harting, D., Huber, A., Jachmich, S., Lawson, K., Lipschultz, B., Maddison, G., Maggi, C., Marchetto, C., Marsen, S., Matthews, G. F., Meigs, A. G., Moulton, D., Sieglin, B., Stamp, M. F., Wiesen, S., and JET Contributors: Comparison of H-mode plasmas in JET-ILW and JET-C with and without nitrogen seeding. *Nuclear Fusion* 56, 046012 (2016).

Jaervinen, A. E., Groth, M., Airila, M., Belo, P., Beurskens, M., Brezinsek, S., Clever, M., Corrigan, G., Devaux, S., Drewelow, P., Eich, T., Giroud, C., Harting, D., Huber, A., Jachmich, S., Lawson, K., Lipschultz, B., Maddison, G., Maggi, C., Makkonen, T., Marchetto, C., Marsen, S., Matthews, G. F., Meigs, A. G., Moulton, D., Stamp, M. F., Wiesen, S., Wischmeier, M., and JET-EFDA Collaborators: Interpretation of radiative divertor studies with impurity seeding in type-I ELMs H-mode plasmas in JET-ILW using EDGE2D-EIRENE. *Journal of Nuclear Materials* 463, 135-142 (2015).

Jaksic, N., Greuner, H., Herrmann, A., Böswirth, B., and Vorbrugg, S.: Results of high heat flux tests and structural analysis of the new solid tungsten divertor tile for ASDEX Upgrade. *Fusion Engineering and Design* 98-99, 1333-1336 (2015).

Jardin, S. C., Ferraro, N., and Krebs, I.: Self-Organized Stationary States of Tokamaks. *Physical Review Letters* 115, 215001 (2015).

Jarema, D., Bungartz, H. J., Görler, T., Jenko, F., Neckel, T., and Told, D.: Block-structured grids for Eulerian gyrokinetic simulations. *Computer Physics Communications* 198, 105-117 (2016).

Jasper, B., Coenen, J. W., Riesch, J., Höschken, T., Bram, M., and Linsmeier, Ch.: Powder Metallurgical Tungsten Fiber-Reinforced Tungsten. *Materials Science Forum* 825-826, 125-133 (2015).

Jaulmes, F., Geiger, B., Odstrcil, T., Weiland, M., Salewski, M., Jacobsen, A. S., Rasmussen, J., Stejner, M., Nielsen, S. K., Westerhof, E., EUROfusion MST1 Team, and ASDEX Upgrade Team: Numerical and experimental study of the redistribution of energetic and impurity ions by sawteeth in ASDEX Upgrade. *Nuclear Fusion* 56, 112012 (2016).

Jonauskas, V., Pütterich, T., Kučas, S., Masys, Š., Kynienė, A., Gaigalas, G., Kisielius, R., Radžiūtė, L., Rynkun, P., and Merkeliš, G.: Cascade emission in electron beam ion trap plasma of W^{25+} ion. *Journal of Quantitative Spectroscopy and Radiative Transfer* 160, 22-28 (2015).

Junghanns, P., Boscary, J., and Peacock, A.: Experience gained with the 3D machining of the W7-X HHF divertor target elements. *Fusion Engineering and Design* 98-99, 1226-1230 (2015).

Kallenbach, A., Bernert, M., Beurskens, M., Casali, L., Dunne, M., Eich, T., Giannone, L., Herrmann, A., Maraschek, M., Potzel, S., Reimold, F., Rohde, V., Schweinzer, J., Viezzier, E., Wischmeier, M., and ASDEX Upgrade Team: Partial detachment of high power discharges in ASDEX Upgrade. *Nuclear Fusion* 55, 053026 (2015).

Kallenbach, A., Bernert, M., Dux, R., Reimold, F., Wischmeier, M., and ASDEX Upgrade Team: Analytical calculations for impurity seeded partially detached divertor conditions. *Plasma Physics and Controlled Fusion* 58, 045013 (2016).

Kang, K. S.: On the Finite Volume Multigrid Method: Comparison of Intergrid Transfer Operators. *Computational Methods in Applied Mathematics* 15, 189-202 (2015).

Kang, K. S.: Scalable implementation of the parallel multigrid method on massively parallel computers. *Computers and Mathematics with Applications* 70, 2701-2708 (2015).

Käsemann, C.-P., Jacob, C., Nguyen, H. H., Stobbe, F., Mayer, A., Sachs, E., Klein, R., and ASDEX Upgrade Team:

New drive converter and digital control for the pulsed power supply system of ASDEX Upgrade. *Fusion Engineering and Design* 98-99, 1081-1085 (2015).

Kasilov, S. V., Runov, A. M., and Kernbichler, W.: Geometric integrator for charged particle orbits in axisymmetric fusion devices. *Computer Physics Communications* 207, 282-286 (2016).

Kasperek, W., Doelman, N., Stober, J., Maraschek, M., Zohm, H., Monaco, F., Eixenberger, H., Klop, W., Wagner, D., Schubert, M., Schütz, H., Grünwald, G., Plaum, B., Munk, R., Schlüter, K. H., and ASDEX Upgrade Team: NTM stabilization by alternating O-point EC current drive using a high-power diplexer. *Nuclear Fusion* 56, 126001 (2016).

Kasperek, W., Lechte, C., Plaum, B., Zeitler, A., Erckmann, V., Laqua, H. P., Weißgerber, M., Bechtold, A., Busch, M., and Szcepaniak, B.: Remote-steering Launchers for the ECRH system on the Stellarator W7-X. *EPJ Web of Conferences* 87, 04005 (2015).

Kasperek, W., Plaum, B., Lechte, C., Wu, Z., Wang, H., Maraschek, M., Stober, J., Wagner, D., Reich, M., Schubert, M., Grünwald, G., Monaco, F., Müller, S., Schütz, H., Erckmann, V., Doelman, N., Braber, R. van den, Klop, W., Brand, H. van den, Bongers, W., Krijger, B., Petelin, M., Koposova, L., Lubyako, L., Bruschi, A., Sakamoto, K., Teams at the Contributed Institutes, and ASDEX Upgrade Team: Development of Resonant Diplexers for high-power ECRH – Status, Applications, Plans. *EPJ Web of Conferences* 87, 04010 (2015).

Kaye, S. M., Abrams, T., Ahn, J.-W., Allain, J. P., Andre, R., Andruczyk, D., Barchfeld, R., Battaglia, D., Bhattacharjee, A., Bedoya, F., Bell, R. E., Belova, E., Berkery, J., Berry, L., Bertelli, N., Beiersdorfer, P., Bialek, J., Bilato, R., Boedo, J., Bonoli, P., Boozer, A., Bortolon, A., Boyer, M. D., Boyle, D., Brennan, D., Breslau, J., Brooks, J., Butterly, R., Capece, A., Canik, J., Chang, C. S., Crocker, N., Darrow, D., Davis, W., Delgado-Aparicio, L., Diallo, A., D'Ippolito, D., Domier, C., Ebrahimi, F., Ethier, S., Evans, T., Ferraro, N., Ferron, J., Finkenthal, M., Fonck, R., Fredrickson, E., Fu, G. Y., Gates, D., Gerhardt, S., Glasser, A., Gorelenkov, N., Gorelenkova, M., Goumire, I., Gray, T., Green, D., Guttenfelder, W., Harvey, R., Hassanein, A., Heidbrink, W., Hirooka, Y., Hooper, E. B., Hosea, J., Humphreys, D., Jaeger, E. F., Jarboe, T., Jardin, S., Jaworski, M. A., Kaita, R., Kessel, C., Kim, K., Koel, B., Kolemen, E., Kramer, G., Ku, S., Kubota, S., LaHaye, R. J., Lao, L., LeBlanc, B. P., Levinton, F., Liu, D., Lore, J., Lucia, M., Luhmann Jr, N., Maingi, R., Majeski, R., Mansfield, D., Maqueda, R., McKee, G., Medley, S., Meier, E., Menard, J., Mueller, D., Munsat, T., Muscatello, C., Myra, J., Nelson, B.,

- Nichols, J., Ono, M., Osborne, T., Park, J.-K., Peebles, W., Perkins, R., Phillips, C., Podesta, M., Poli, F., Raman, R., Ren, Y., Roszell, J., Rowley, C., Russell, D., Ruzic, D., Ryan, P., Sabbagh, S. A., Schuster, E., Scotti, F., Sechrest, Y., Shaing, K., Sizyuk, T., Sizyuk, V., Skinner, C., Smith, D., Snyder, P., Solomon, W., Sovenic, C., Soukhanovskii, V., Startsev, E., Stotler, D., Stratton, B., Stutman, D., Taylor, C., Taylor, G., Tritz, K., Walker, M., Wang, W., Wang, Z., White, R., Wilson, J. R., Wirth, B., Wright, J., Yuan, X., Yuh, H., Zakharov, L., and Zweber, S. J.: An overview of recent physics results from NSTX. *Nuclear Fusion* 55, 104002 (2015).
- Kazakov, Y. O., Ongena, J., Van Eester, D., Bilato, R., Dumont, R., Lerche, E., Mantsinen, M., and Messiaen, A.: A new ion cyclotron range of frequency scenario for bulk ion heating in deuterium-tritium plasmas: How to utilize intrinsic impurities in our favour. *Physics of Plasmas* 22, 082511 (2015).
- Kernbichler, W., Kupper, G., Kasilov, S. V., and Marushchenko, N. B.: Computation of the Spitzer function in stellarators and tokamaks with finite collisionality. *EPJ Web of Conferences* 87, 01006 (2015).
- Kim, K., Na, Y.-S., Kim, H.-S., Maraschek, M., Poli, E., Stober, J., Zohm, H., Felici, F., Sauter, O., Park, Y. S., Terzolo, L., ASDEX Upgrade Team, and TCV Team: Modeling of neoclassical tearing mode stabilization by electron cyclotron heating and current drive in tokamak plasmas. *Current Applied Physics* 16, 867-875 (2016).
- Kirk, A., Suttrop, W., Chapman, I., Liu, Y., Scannell, R., Thornton, A. J., Barrera Orte, L., Cahyna, P., Eich, T., Fischer, R., Fuchs, C., Ham, C., Harrison, J., Jakubowski, M. W., Kurzan, B., Pamela, S., Peterka, M., Ryan, D., Saarelma, S., Sieglin, B., Valovic, M., Willensdorfer, M., MAST Team and ASDEX Upgrade Team: Effect of resonant magnetic perturbations on low collisionality discharges in MAST and a comparison with ASDEX Upgrade. *Nuclear Fusion* 55, 043011 (2015).
- Kleiber, R., Hatzky, R., Könies, A., Mishchenko, A., and Sonnendrücker, E.: An explicit large time step particle-in-cell scheme for nonlinear gyrokinetic simulations in the electromagnetic regime. *Physics of Plasmas* 23, 032501 (2016).
- Klepper, C. C., Borodin, D., Groth, M., Lasa, A., Airila, M., Bobkov, V., Colas, L., Jacquet, P., Kirschner, A., Terra, A., Biewer, T. M., Delabie, E., Giroud, C., and JET Contributors: Estimates of RF-induced erosion at antenna-connected beryllium plasma-facing components in JET. *Physica Scripta* T167, 014035 (2016).
- Klimov, N. S., Putrik, A. B., Linke, J., Pitts, R. A., Zhilukhin, A. M., Kuprianov, I. B., Spitsyn, A. V., Ogorodnikova, O. V., Podkorytov, V. L., Muzichenko, A. D., Ivanov, B. V., Sergeeva, Y. V., Lesina, I. G., Kovalenko, D. V., Barsuk, V. A., Danilina, N. A., Bazylev, B. N., and Giniyatulin, R. N.: Plasma facing materials performance under ITER-relevant mitigated disruption photonic heat loads. *Journal of Nuclear Materials* 463, 61-65 (2015).
- Klinger, T.: Wendelstein 7-X. *Magnetic Fusion Energy: From Experiments to Power Plants*, (Ed.) G. H. Neilson. Elsevier Science, Amsterdam, 493-506 (2016).
- Kobayashi, M., Feng, Y., Xu, Y., Tabares, F. L., Ida, K., Schmitz, O., Evans, T. E., Frerichs, H., Liang, Y., Bader, A., Itoh, K., Yamada, H., Ghendrih, P., Ciraolo, G., Tafalla, D., Lopez-Fraguas, A., Guo, H. Y., Cui, Z. Y., Reiter, D., Asakura, N., Wenzel, U., Morita, S., Ohno, N., Peterson, B. J., and Masuzaki, S.: Impact of 3D magnetic field structure on boundary and divertor plasmas in stellarator/heliotron devices. *Journal of Nuclear Materials* 463, 2-10 (2015).
- Kobayashi, M., Xu, Y., Ida, K., Corre, Y., Feng, Y., Schmitz, O., Frerichs, H., Tabares, F. L., Evans, T. E., Coenen, J. W., Liang, Y., Bader, A., Itoh, K., Yamada, H., Ghendrih, P., Ciraolo, G., Tafalla, D., Lopez-Fraguas, A., Guo, H. Y., Cui, Z. Y., Reiter, D., Asakura, N., Wenzel, U., Morita, S., Ohno, N., Peterson, B. J., and Masuzaki, S.: 3D effects of edge magnetic field configuration on divertor/scrape-off layer transport and optimization possibilities for a future reactor. *Nuclear Fusion* 55, 104021 (2015).
- Kocsis, G., Baross, T., Biedermann, C., Bodnar, G., Cseh, G., Ilkei, T., König, R., Otte, M., Szabolics, T., Szepesi, T., and Zoleznik, S.: Overview video diagnostics for the W7-X stellarator. *Fusion Engineering and Design* 96-97, 808-811 (2015).
- Koenen, C., Siart, U., Eibert, T. F., Conway, G. D., and Stroth, U.: A Configurable Coupling Structure for Broadband Millimeter-Wave Split-Block Networks. *IEEE Transactions on Microwave Theory and Techniques* 63, 3954-3961 (2015).
- Kogut, D., Douai, D., Baldwin, M. J., Doerner, R. P., Sinelnikov, D., Mamedov, N., Kurnaev, V., Becker, H. W., and Schwarz-Selinger, T.: Hydrogen isotope exchange in beryllium co-deposits: modelling and experiment. *Physica Scripta* T167, 014062 (2016).
- Köhn, A., Holzhauer, E., Leddy, J., Thomas, M. B., and Vann, R. G. L.: Influence of plasma turbulence on microwave propagation. *Plasma Physics and Controlled Fusion* 58, 105008 (2016).

Kolasinski, P., Pozniak, K. T., Czarski, T., Linczuk, M., Byszuk, A., Chernyshova, M., Juszczak, B., Kasprowicz, G., Wojenski, A., Wojciech, Z., Zabolotny, W., Zienkiewicz, P., Mazon, D., Malard, P., Herrmann, A., Vezinet, D., and ASDEX Upgrade Team: Serial data acquisition for GEM-2D detector. Proceedings of SPIE 9290, 92902H (2015).

Kolesnichenko, Y. I., Könies, A., Lutsenko, V. V., Drevlak, M., Turkin, Y., and Helander, P.: Isomon instabilities driven by energetic ions in Wendelstein 7-X. Nuclear Fusion 56, 066004 (2016).

König, R., Baldzuhn, J., Biel, W., Biedermann, C., Bosch, H. S., Bozhenkov, S., Bräuer, T., Brotas de Carvalho, B., Burhenn, R., Buttenschön, B., Cseh, G., Czarneck, A., Endler, M., Erckmann, V., Estrada, T., Geiger, J., Grulke, O., Hartmann, D. A., Hathiramani, D., Hirsch, M., Jablonski, S., Jakubowski, M., Kaczmarczyk, J., Klinger, T., Klose, S., Kocsis, G., Kornejew, P., Krämer-Flecken, A., Kremeyer, T., Krychowiak, M., Kubikowska, M., Langenberg, A., Laqua, H. P., Laux, M., Liang, Y., Lorenz, A., Marchuk, A. O., Moncada, V., Neubauer, O., Neuner, U., Oosterbeek, J. W., Otte, M., Pablant, N., Pasch, E., Pedersen, T. S., Rahbarnia, K., Ryc, L., Schmitz, O., Schneider, W., Schuhmacher, H., Schweer, B., Stange, T., Thomsen, H., Travere, J.-M., Szepesi, T., Wenzel, U., Werner, A., Wiegel, B., Windisch, T., Wolf, R., Wurden, G. A., Zhang, D., Zimbal, A., Zoletnik, S., and W7-X Team: The Set of Diagnostics for the First Operation Campaign of the Wendelstein 7-X Stellarator. Journal of Instrumentation 10, P10002 (2015).

Kormann, K.: A semi-Lagrangian Vlasov solver in tensor train format. SIAM Journal on Scientific Computing 37, B613-B632 (2015).

Kormann, K., and Sonnendrücker, E.: Sparse Grids for the Vlasov-Poisson Equation. In: Sparse Grids and Applications – Stuttgart 2014, Lecture Notes in Computational Science and Engineering 109. (Eds.) J. Garcke, D. Pflüger 163-190 (2016).

Koskela, T., Romanelli, M., Belo, P., Asunta, O., Sipilä, S., O'Mullane, M., Giacomelli, L., Conroy, S., Mantica, P., Valisa, M., Angioni, C., Kurki-Suonio, T., and JET-EFDA Contributors: Effect of tungsten off-axis accumulation on neutral beam deposition in JET rotating plasmas. Plasma Physics and Controlled Fusion 57, 045001 (2015).

Kostanovskiy, I. A., Afanas'ev, V. P., Naujoks, D., and Mayer, M.: Hydrocarbon isotope detection by elastic peak electron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena 202, 22-25 (2015).

Krat, S., Gasparyan, Y., Pisarev, A., Bykov, I., Mayer, M., Saint Aubin, G. de, Balden, M., Lungu, C. P., Widdowson, A.,

and JET-EFDA Contributors: Erosion at the inner wall of JET during the discharge campaign 2011-2012 in comparison with previous campaigns. Journal of Nuclear Materials 456, (2015).

Krat, S., Gasparyan, Y., Pisarev, A., Mayer, M., Toussaint, U. von, Coad, P., Widdowson, A., and JET-EFDA Contributors: Hydrocarbon film deposition inside cavity samples in remote areas of the JET divertor during the 1999-2001 and 2005-2009 campaigns. Journal of Nuclear Materials 463, 822-826 (2015).

Krat, S., Mayer, M., and Porosnicu, C.: The ${}^9\text{Be}(\text{p},\text{p}_0){}^9\text{Be}$, ${}^9\text{Be}(\text{p},\text{d}_0){}^8\text{Be}$, and ${}^9\text{Be}(\text{p},\alpha_0){}^6\text{Li}$ cross-sections for analytical purposes. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 358, 72-81 (2015).

Kraus, M. (2016). Strukturierhaltende Numerik in der Plasmaphysik. Jahrbuch der Max-Planck-Gesellschaft, 2016.

Kraus, M., and Maj, O.: Variational integrators for nonvariational partial differential equations. Physica D: Nonlinear Phenomena 310, 37-71 (2015).

Kraus, M., Tassi, E., and Grassi, D.: Variational integrators for reduced magnetohydrodynamics. Journal of Computational Physics 321, 435-458 (2016).

Kraus, W., Fantz, U., Heinemann, B., and Franzen, P.: Solid state generator for powerful radio frequency ion sources in neutral beam injection systems. Fusion Engineering and Design 91, 16-20 (2015).

Kraus, W., Fantz, U., Heinemann, B., and Wunderlich, D.: Concepts of magnetic filter fields in powerful negative ion sources for fusion. Review of Scientific Instruments 87, 02B315 (2016).

Kraus, W., Fantz, U., Heinemann, B., and Wunderlich, D.: Erratum: “Concepts of magnetic filter fields in powerful negative ion sources for fusion” [Rev. Sci. Instrum. 87, 02B315 (2016)]. Review of Scientific Instruments 87, 059901 (2016).

Kraus, W., and McNeely, P. (Eds.): Fourth International Symposium on Negative Ions, Beams and Sources (NIBS 2014). AIP Conference Proceedings 1655: AIP Publishing, Melville, NY (2015).

Krivoska, A., Bobkov, V., Colas, L., Jacquot, J., Milanesio, D., Ochoukov, R., and ASDEX Upgrade Team: Estimation of sheath potentials in front of ASDEX upgrade ICRF antenna with SSWICH asymptotic code. AIP Conference Proceedings 1689, 050002 (2015).

- Kubkowska, M., Czarnecka, A., Figacz, W., Jablonski, S., Kaczmarczyk, J., Krawczyk, N., Ryc, L., Biedermann, C., König, R., Thomsen, H., Weller, A., and W7-X Team: Laboratory tests of the Pulse Height Analysis system for Wendelstein 7-X. *Journal of Instrumentation* 10, P10016 (2015).
- Kubo, S., Nishiura, M., Tanaka, K., Moseev, D., Ogasawara, S., Shimozuma, T., Yoshimura, Y., Igami, H., Takahashi, H., Tsujimura, T. I., and Makino, R.: Scattering volume in the collective Thomson scattering measurement using high power gyrotron in the LHD. *Journal of Instrumentation* 11, C06005 (2016).
- Kuiroukidis, A., Throumoulopoulos, G. N., and Tasso, H.: Vlasov tokamak equilibria with sheared toroidal flow and anisotropic pressure. *Physics of Plasmas* 22, 082505 (2015).
- Kurutz, U., and Fantz, U.: Investigations on Caesium-free Alternatives for H- Formation at Ion Source Relevant Parameters. *AIP Conference Proceedings* 1655, 020005 (2015).
- Kwak, S., Svensson, J., Brix, M., Ghim, Y.-c., and JET Contributors: Bayesian modelling of the emission spectrum of the Joint European Torus Lithium Beam Emission Spectroscopy system. *Review of Scientific Instruments* 87, 023501 (2016).
- Laggner, F. M., Wolfrum, E., Cavedon, M., Mink, F., Viezzer, E., Dunne, M. G., Manz, P., Doerk, H., Birkenmeier, G., Fischer, R., Fietz, S., Maraschek, M., Willensdorfer, M., Aumayr, F., EUROfusion MST1 Team, and ASDEX Upgrade Team: High frequency magnetic fluctuations correlated with the inter-ELM pedestal evolution in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 58, 065005 (2016).
- Landreman, M., Plunk, G. G., and Dorland, W.: Generalized universal instability: transient linear amplification and sub-critical turbulence. *Journal of Plasma Physics* 81, 905810501 (2015).
- Lang, P. T., Day, C., Fable, E., Igitkhanov, Y., Köchl, F., Mooney, R., Pegourie, B., Plöckl, B., Wenninger, R., and Zohm, H.: Considerations on the DEMO pellet fuelling system. *Fusion Engineering and Design* 96-97, 123-128 (2015).
- Lang, P. T., Meyer, H., Birkenmeier, G., Burckhart, A., Carvalho, I. S., Delabie, E., Frassinetti, L., Huijsmans, G., Kocsis, G., Loarte, A., Maggi, C. F., Maraschek, M., Plöckl, B., Rimini, F., Ryter, F., Saarelma, S., Szepesi, T., Wolfrum, E., ASDEX Upgrade Team, and JET Contributors: ELM control at the L → H transition by means of pellet pacing in the ASDEX Upgrade and JET all-metal-wall tokamaks. *Plasma Physics and Controlled Fusion* 57, 045011 (2015).
- Langenberg, A., Svensson, J., Thomsen, H., Marchuk, O., Pablant, N. A., Burhenn, R., and Wolf, R. C.: Forward Modeling of X-Ray Imaging Crystal Spectrometers Within the Minerva Bayesian Analysis Framework. *Fusion Science and Technology* 69, 560-567 (2016).
- Langer, H., Steinbicker, A., Meister, H., and Zauner, C.: Integrated thermal FE analyses and testing of prototype components for the ITER bolometer diagnostic. *Fusion Engineering and Design* 96-97, 821-825 (2015).
- Lauber, P.: Local and global kinetic stability analysis of Alfvén eigenmodes in the 15 MA ITER scenario. *Plasma Physics and Controlled Fusion* 57, 054011 (2015).
- Lawson, K. D., Groth, M., Belo, P., Brezinsek, S., Corrigan, G., Czarnecka, A., Delabie, E., Drewelow, P., Harting, D., Książek, I., Maggi, C. F., Marchetto, C., Meigs, A. G., Menmuir, S., Stamp, M. F., Wiesen, S., and JET-EFDA Contributors: Improved EDGE2D-EIRENE simulations of JET ITER-like wall L-mode discharges utilising poloidal VUV/visible spectral emission profiles. *Journal of Nuclear Materials* 463, 582-585 (2015).
- Lazerson, S. A., Loizu, J., Hirshman, S., and Hudson, S. R.: Verification of the ideal magnetohydrodynamic response at rational surfaces in the VMEC code. *Physics of Plasmas* 23, 012507 (2016).
- Lazerson, S. A., Loizu, J., Hirshman, S., and Hudson, S. R.: Publisher's Note: "Verification of the ideal magnetohydrodynamic response at rational surfaces in the VMEC code" [Phys. Plasmas 23, 012507 (2016)]. *Physics of Plasmas* 23, 029902 (2016).
- Lazerson, S. A., Otte, M., Bozhenkov, S., Biedermann, C., Pedersen, T. S., and W7-X Team: First measurements of error fields on W7-X using flux surface mapping. *Nuclear Fusion* 56, 106005 (2016).
- Lee, H. T., De Temmerman, G., Gao, L., Schwarz-Selinger, T., Meisl, G., Höschen, T., and Ueda, Y.: Deuterium retention in tungsten exposed to mixed D + N plasma at divertor relevant fluxes in Magnum-PSI. *Journal of Nuclear Materials* 463, 974-978 (2015).
- Lehnen, M., Aleynikova, K., Aleynikov, P. B., Campbell, D. J., Drewelow, P., Eidietis, N. W., Gasparian, Y., Granetz, R. S., Gribov, Y., Hartmann, N., Hollmann, E. M., Izzo, V. A., Jachmich, S., Kim, S.-H., Kočan, M., Koslowski, H. R., Kovalenko, D., Kruezi, U., Loarte, A., Maruyama, S., Matthews, G. F., Parks, P. B., Pautasso, G., Pitts, R. A., Reux, C., Riccardo, V., Roccella, R., Snipes, J. A., Thornton, A. J.,

Vries, P. C. de, and EFDA JET Contributors: Disruptions in ITER and strategies for their control and mitigation. *Journal of Nuclear Materials* 463, 39-48 (2015).

Lemahieu, N., Balden, M., Elgeti, S., Greuner, H., Linke, J., Maier, H., Pintsuk, G., Wirtz, M., Van Oost, G., and Noterdaeme, J.-M.: H/He irradiation on tungsten exposed to ELM-like thermal shocks. *Fusion Engineering and Design* 109-111, Pt. A, 169-174 (2016).

Lemahieu, N., Greuner, H., Linke, J., Maier, H., Pintsuk, G., Van Oost, G., and Wirtz, M.: Synergistic effects of ELMs and steady state H and H/He irradiation on tungsten. *Fusion Engineering and Design* 98-99, 2020-2024 (2015).

Lemahieu, N., Greuner, H., Linke, J., Maier, H., Pintsuk, G., Wirtz, M., Van Oost, G., and Noterdaeme, J.-M.: Thermal shock behaviour of H and H/He-exposed tungsten at high temperature. *Physica Scripta* T167, 014008 (2016).

Lennholm, M., Beaumont, P. S., Carvalho, I. S., Chapman, I. T., Felton, R., Frigione, D., Garzotti, L., Goodyear, A., Graves, J., Grist, D., Jachmich, S., Lang, P., Lerche, E., Luna, E. de la, Mooney, R., Morris, J., Nave, M. F. F., Rimini, F., Sips, G., Solano, E., Tsalas, M., and JET EFDA Contributors: ELM frequency feedback control on JET. *Nuclear Fusion* 55, 063004 (2015).

Lennholm, M., Frigione, D., Graves, J. P., Beaumont, P. S., Blackman, T., Carvalho, I. S., Chapman, I., Dumont, R., Felton, R., Garzotti, L., Goniche, M., Goodyear, A., Grist, D., Jachmich, S., Johnson, T., Lang, P., Lerche, E., Luna, E. de la, Monakhov, I., Mooney, R., Morris, J., Nave, M. F. F., Reich, M., Rimini, F., Sips, G., Sheikh, H., Sozzi, C., Tsalas, M., and JET Contributors: Real-time control of ELM and sawtooth frequencies: similarities and differences. *Nuclear Fusion* 56, 016008 (2016).

Lerche, E., Goniche, M., Jacquet, P., Van Eester, D., Bobkov, V., Colas, L., Czarnecka, A., Brezinsek, S., Brix, M., Crombe, K., Graham, M., Groth, M., Monakhov, I., Mathurin, T., Matthews, G., Meneses, L., Noble, C., Petrzilka, V., Rimini, F., Shaw, A., and JET-EFDA Contributors: Impact of localized gas injection on ICRF coupling and SOL parameters in JET-ILW H-mode plasmas. *Journal of Nuclear Materials* 463, 634-639 (2015).

Lerche, E., Goniche, M., Jacquet, P., Van Eester, D., Bobkov, V., Colas, L., Giroud, C., Monakhov, I., Casson, F. J., Rimini, F., Angioni, C., Baruzzo, M., Blackman, T., Brezinsek, S., Brix, M., Czarnecka, A., Crombe, K., Challis, C., Dumont, R., Eriksson, J., Fedorczak, N., Graham, M., Graves, J. P., Gorini, G., Hobirk, J., Joffrin, E., Johnson, T., Kazakov, Y., Kiptily, V., Krivska, A.,

Lennholm, M., Lomas, P., Maggi, C., Mantica, P., Mathews, G., Mayoral, M.-L., Meneses, L., Mlynar, J., Monier-Garbet, P., Nave, M. F., Noble, C., Nocente, M., Nunes, I., Ongena, J., Petravich, G., Petrzilka, V., Pütterich, T., Reich, M., Santala, M., Solano, E. R., Shaw, A., Sips, G., Stamp, M., Tardocchi, M., Tsalas, M., Valisa, M., and JET Contributors: Optimization of ICRH for core impurity control in JET-ILW. *Nuclear Fusion* 56, 036022 (2016).

Lerche, E., Goniche, M., Jacquet, P., Van Eester, D., Bobkov, V., Colas, L., Monakhov, I., Rimini, F., Czarnecka, A., Crombe, K., Dumont, R., Hobirk, J., Kazakov, Y., Mayoral, M.-L., Meneses, L., Mlynar, J., Noble, C., Nunes, I., Ongena, J., Petrzilka, V., Reich, M., Santala, M., Shaw, A., Tsalas, M., and JET Contributors: ICRH for core impurity mitigation in JET-ILW. *AIP Conference Proceedings* 1689, 030002 (2015).

Leyland, M. J., Beurskens, M. N. A., Flanagan, J. C., Frassinetti, L., Gibson, K. J., Kempenaars, M., Maslov, M., Scannell, R., and JET Contributors: Edge profile analysis of Joint European Torus (JET) Thomson scattering data: Quantifying the systematic error due to edge localised mode synchronisation. *Review of Scientific Instruments* 87, 013507 (2016).

Leyland, M. J., Beurskens, M. N. A., Frassinetti, L., Giroud, C., Saarelma, S., Snyder, P. B., Flanagan, J., Jachmich, S., Kempenaars, M., Lomas, P., Maddison, G., Neu, R., Nunes, I., Gibson, K. J., and JET-EFDA Contributors: The H-mode pedestal structure and its role on confinement in JET with a carbon and metal wall. *Nuclear Fusion* 55, 013019 (2015).

Li, C., Greuner, H., Yuan, Y., Zhao, S. X., Luo, G. N., Böswirth, B., Fu, B. Q., Jia, Y. Z., Liu, X., and Li, W.: Surface modifications of W divertor components for EAST during exposure to high heat loads with He. *Journal of Nuclear Materials* 463, 223-227 (2015).

Li, C., Greuner, H., Zhao, S. X., Böswirth, B., Luo, G. N., Zhou, X., Jia, Y. Z., Liu, X., and Liu, W.: Micro- and nano-scale damage on the surface of W divertor component during exposure to high heat flux loads with He. *Journal of Nuclear Materials* 466, 357-361 (2015).

Li, C., Greuner, H., Zhou, X., Luo, G., and Liu, W.: Surface modifications of rolled W during exposure to high heat loads with He. *Nuclear Technique* 38, 070604 (2015).

Li, D., Liu, Y., Svensson, J., Liu, Y. Q., Song, X. M., Yu, L. M., Mao, R., Fu, B. Z., Deng, W., Yuan, B. S., Ji, X. Q., Xu, Y., Chen, W., Zhou, Y., Yang, Q. W., Duan, X. R., Liu, Y., and HL-A Team: Bayesian soft x-ray tomography and MHD mode analysis on HL-2A. *Nuclear Fusion* 56, 036012 (2016).

- Li, E., Igochine, V., Xu, L., Shi, T., Zhao, H., Liu, Y., Ti, A., White, R., Zhang, J., Zhu, Y., Huang, J., Shen, B., Lin, S., Qian, J., Gong, X., Hu, L., and EAST Contributors: The dynamics of a neoclassical tearing mode (NTM) influenced by energetic ions on EAST. *Plasma Physics and Controlled Fusion* 58, 045012 (2016).
- Li, L., Liu, Y. Q., Kirk, A., Wang, N., Liang, Y., Ryan, D., Suttrop, W., Dunne, M., Fischer, R., Fuchs, J. C., Kurzan, B., Piovesan, P., Willensdorfer, M., Zhong, F. C., ASDEX Upgrade Team, and EUROfusion MST1 Team: Modelling plasma response to RMP fields in ASDEX Upgrade with varying edge safety factor and triangularity. *Nuclear Fusion* 56, 126007 (2016).
- Li, M., Maviglia, F., Federici, G., and You, J.-H.: Sweeping heat flux loads on divertor targets: Thermal benefits and structural impacts. *Fusion Engineering and Design* 102, 50-58 (2016).
- Li, M., Sommerer, M., Werner, E., Lampenscherf, S., Stein-kopff, T., Wolfrum, P., and You, J.-H.: Experimental and computational study of damage behavior of tungsten under high energy electron beam irradiation. *Engineering Fracture Mechanics* 135, 64-80 (2015).
- Li, M., Werner, E., and You, J.-H.: Influence of heat flux loading patterns on the surface cracking features of tungsten armor under ELM-like thermal shocks. *Journal of Nuclear Materials* 457, 256-265 (2015).
- Li, M., Werner, E., and You, J.-H.: Low cycle fatigue behavior of ITER-like divertor target under DEMO-relevant operation conditions. *Fusion Engineering and Design* 90, 88-96 (2015).
- Li, M., and You, J.-H.: Interpretation of the deep cracking phenomenon of tungsten monoblock targets observed in high-heat-flux fatigue tests at 20 MW/m². *Fusion Engineering and Design* 101, 1-8 (2015).
- Li, M., and You, J.-H.: Mechanics of tungsten blistering II: Analytical treatment and fracture mechanical assessment. *Journal of Nuclear Materials* 465, 702-709 (2015).
- Likonen, J., Heinola, K., De Backer, A., Koivuranta, S., Hakola, A., Ayres, C. F., Baron-Wiechec, A., Coad, P., Matthews, G. F., Mayer, M., Widdowson, A., and JET Contributors: Deuterium trapping and release in JET ITER-like wall divertor tiles. *Physica Scripta* T167, 014074 (2016).
- Lishev, S., Schiesko, L., Wunderlich, D., and Fantz, U.: Spatial Distribution of the Plasma Parameters in the RF Negative Ion Source Prototype for Fusion. *AIP Conference Proceedings* 1655, 040010 (2015).
- Litnovsky, A., Hellwig, M., Matveev, D., Komm, M., Berg, M., van den, De Temmerman, G., Rudakov, D., Ding, F., Luo, G.-N., Krieger, K., Sugiyama, K., Pitts, R. A., and Petersson, P.: Optimization of tungsten castellated structures for the ITER divertor. *Journal of Nuclear Materials* 463, 174-179 (2015).
- Liu, F., Huijsmans, G. T. A., Loarte, A., Garofalo, A. M., Solomon, W. M., Snyder, P. B., Hoelzl, M., and Zeng, L.: Nonlinear MHD simulations of Quiescent H-mode plasmas in DIII-D. *Nuclear Fusion* 55, 113002 (2015).
- Liu, Y., Ryan, D., Kirk, A., Li, L., Suttrop, W., Dunne, M., Fischer, R., Fuchs, J. C., Kurzan, B., Piovesan, P., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Toroidal modelling of RMP response in ASDEX Upgrade: coil phase scan, q_{95} dependence, and toroidal torques. *Nuclear Fusion* 56, 056015 (2016).
- Loarte, A., Reinke, M. L., Polevoi, A. R., Hosokawa, M., Chilenski, M., Howard, N., Hubbard, A., Hughes, J. W., Rice, J. E., Walk, J., Köchl, F., Pütterich, T., Dux, R., Zhogolev, V. E., and Alcator C-Mod Team: Tungsten impurity transport experiments in Alcator C-Mod to address high priority research and development for ITER. *Physics of Plasmas* 22, 056117 (2015).
- Loewenhoff, T., Bardin, S., Greuner, H., Linke, J., Maier, H., Morgan, T. W., Pintsuk, G., Pitts, R. A., Riccardi, B., and De Temmerman, G.: Impact of combined transient plasma/heat loads on tungsten performance below and above recrystallization temperature. *Nuclear Fusion* 55, 123004 (2015).
- Loizu, J., Hudson, S., Bhattacharjee, A., and Helander, P.: Magnetic islands and singular currents at rational surfaces in three-dimensional magnetohydrodynamic equilibria. *Physics of Plasmas* 22, 022501 (2015).
- Loizu, J., Hudson, S. R., Bhattacharjee, A., Lazerson, S., and Helander, P.: Existence of three-dimensional ideal-magnetohydrodynamic equilibria with current sheets. *Physics of Plasmas* 22, 090704 (2015).
- Loizu, J., Hudson, S., Helander, P., Lazerson, S., and Bhattacharjee, A.: Pressure-driven amplification and penetration of resonant magnetic perturbations. *Physics of Plasmas* 23, 055703 (2016).
- Lore, J. D., Reinke, M. L., Brunner, D., LaBombard, B., Lipschultz, B., Terry, J., Pitts, R. A., and Feng, Y.: Three-dimensional simulation of H-mode plasmas with localized divertor impurity injection on Alcator C-Mod using the edge transport code EMC3-EIRENE. *Physics of Plasmas* 22, 056106 (2015).

- Lore, J. D., Reinke, M. L., LaBombard, B., Lipschultz, B., Churchill, R. M., Pitts, R. A., and Feng, Y.: EMC3-EIRENE modeling of toroidally-localized divertor gas injection experiments on Alcator C-Mod. *Journal of Nuclear Materials* 463, 515-518 (2015).
- Louche, F., Jacquot, J., Cromb  , K., Van Eester, D., D'Inca, R., Devaux, S., Faudot, E., Faugel, H., F  nfgelder, H., Heuraux, S., Morgal, I., Moritz, J., Ochoukov, R., and Noterdaeme, J.-M.: Designing the ISHTAR antenna: Physics and engineering aspects. *AIP Conference Proceedings* 1689, 070016 (2015).
- Loureiro, N. F., Dorland, W., Fazendeiro, L., Kanekar, A., Mallet, A., Vilelas, M. S., and Zocco, A.: Viriato: A Fourier-Hermite spectral code for strongly magnetized fluid-kinetic plasma dynamics. *Computer Physics Communications* 206, 45-63 (2016).
- Lu, L., Cromb  , K., Van Eester, D., Colas, L., and Jacquot, J.: Wave coupling in the magnetized plasma edge: Impact of a finite, inhomogeneous density inside the antenna box. *AIP Conference Proceedings* 1689, 050003 (2015).
- Lu, L., Cromb  , K., Van Eester, D., Colas, L., Jacquot, J., and Heuraux, S.: Ion cyclotron wave coupling in the magnetized plasma edge of tokamaks: impact of a finite, inhomogeneous density inside the antenna box. *Plasma Physics and Controlled Fusion* 58, 055001 (2016).
- Lumsdaine, A., Bjorholm, T., Harris, J., McGinnis, D., Lore, J. D., Boscar, J., Tretter, J., Clark, E., Ekici, K., Fellinger, J., H  lbe, H., Neilson, H., Titus, P., and Wurden, G. A.: Overview of Design and Analysis Activities for the W7-X Scraper Element. *IEEE Transactions on Plasma Science* 44, 1738-1744 (2016).
- Lumsdaine, A., Boscar, J., Fellinger, J., Harris, J., H  lbe, H., K  nig, R., Lore, J., McGinnis, D., Neilson, H., Titus, P., and Tretter, J.: Design of the Wendelstein 7-X inertially cooled Test Divertor Unit Scraper Element. *Fusion Engineering and Design* 98-99, 1357-1361 (2015).
- Lunt, T., Canal, G. P., Duval, B. P., Feng, Y., Labit, B., McCarthy, P., Reimerdes, H., Vijvers, W. A. J., and Wischmeier, M.: Numerical study of potential heat flux mitigation effects in the TCV snowflake divertor. *Plasma Physics and Controlled Fusion* 58, 045027 (2016).
- Lunt, T., Carralero, D., Feng, Y., Birkenmeier, G., M  ller, H. W., M  ller, S., Wischmeier, M., and ASDEX Upgrade Team: EMC3-Eirene simulations of particle- and energy fluxes to main chamber- and divertor plasma facing components in ASDEX Upgrade compared to experiments. *Journal of Nuclear Materials* 463, 744-747 (2015).
- Lux, H., Kemp, R., Fable, E., and Wenninger, R.: Radiation and confinement in 0D fusion systems codes. *Plasma Physics and Controlled Fusion* 58, 075001 (2016).
- Lux, H., Kemp, R., Ward, D. J., and Sertoli, M.: Impurity radiation in DEMO systems modelling. *Fusion Engineering and Design* 101, 42-51 (2015).
- Maeyama, S., Watanabe, T.-H., Doerk, H., Nakata, M., and Ishizawa, A.: Benchmark of electromagnetic gyrokinetic codes in high performance fusion plasma. *Plasma and Fusion Research* 11, 2403011 (2016).
- Maggi, C. F., Saarelma, S., Casson, F. J., Challis, C., Luna, E. de la, Frassinetti, L., Giroud, C., Joffrin, E., Simpson, J., Beurskens, M., Chapman, I., Hobirk, J., Leyland, M., Lomas, P., Lowry, C., Nunes, I., Rimini, F., Sips, A. C. C., Urano, H., and JET Contributors: Pedestal confinement and stability in JET-ILW ELMy H-modes. *Nuclear Fusion* 55, 113031 (2015).
- Maier, H., Greuner, H., Toussaint, U. von, Balden, M., B  swirth, B., and Elgeti, S.: Determination of the temperature dependence of tungsten erosion. *Journal of Nuclear Materials* 463, 337-340 (2015).
- Maier, H., Rasinski, M., Toussaint, U. von, Greuner, H., B  swirth, B., Balden, M., Elgeti, S., Ruset, C., and Matthews, G. F.: Kinetics of carbide formation in the molybdenum-tungsten coatings used in the ITER-like Wall. *Physica Scripta* T167, 014048 (2016).
- Manhard, A., Balden, M., and Elgeti, S.: Quantitative microstructure and defect density analysis of polycrystalline tungsten reference samples after different heat treatments. *Practical Metallography – Praktische Metallographie* 52, 437-466 (2015).
- Manhard, A., Kapser, S., and Gao, L.: Electrochemical study of hydrogen permeation through tungsten near room temperature. *Journal of Nuclear Materials* 463, 1057-1061 (2015).
- Mantsinen, M. J., Bilato, R., Bobkov, V. V., Kappatou, A., McDermott, R. M., Nocente, M., Odstrcil, T., Tardini, G., Bernert, M., Dux, R., Hellsten, T., Mantica, P., Maraschek, M., Nielsen, S. K., Noterdaeme, J.-M., Rasmussen, J., Ryter, F., Stejner, M., Stober, J., Tardocchi, M., and ASDEX Upgrade Team, and EUROfusion MST1 Team: Bulk ion heating with ICRF waves in tokamaks. *AIP Conference Proceedings* 1689, 030005 (2015).

- Manz, P., Birkenmeier, G., Carralero, D., Fuchert, G., Müller, H. W., Scott, B. D., Stroth, U., Ribeiro, T., Wolfrum, E., and ASDEX Upgrade Team: The influence of finite ion temperature on plasma blob dynamics. *Plasma Physics and Controlled Fusion* 57, 014012 (2015).
- Manz, P., Birkenmeier, G., Fuchert, G., Cavedon, M., Conway, G. D., Maraschek, M., Medvedeva, A., Mink, F., Scott, B. D., Shao, L. M., Stroth, U., and ASDEX Upgrade Team: Poloidal asymmetric flow and current relaxation of ballooned transport during I-phase in ASDEX Upgrade. *Physics of Plasmas* 23, 052302 (2016).
- Manz, P., Lauber, P., Nikolaeva, V. E., Happel, T., Ryter, F., Birkenmeier, G., Bogomolov, A., Conway, G. D., Manso, M. E., Maraschek, M., Prisiazhniuk, D., and Viezzzer, E.: Geodesic oscillations and the weakly coherent mode in the I-mode of ASDEX Upgrade. *Nuclear Fusion* 55, 083004 (2015).
- Manz, P., Ribeiro, T., Scott, B. D., Birkenmeier, G., Carralero, D., Fuchert, G., Müller, S. H., Müller, H. W., Stroth, U., and Wolfrum, E.: Origin and turbulence spreading of plasma blobs. *Physics of Plasmas* 22, 022308 (2015).
- Maraschek, M.: Neoclassical Tearing Mode (NTM). In: *Active Control of Magneto-hydrodynamic Instabilities in Hot Plasmas*, (Ed.) V. Igochine. Springer Series on Atomic, Optical, and Plasma Physics 83. Springer, Berlin, Heidelberg, 259-304 (2015).
- Marcuzzi, D., Agostinetti, P., Dalla Palma, M., De Muri, M., Chitarin, G., Gambetta, G., Marconato, N., Pasqualotto, R., Pavei, M., Pilan, N., Rizzolo, A., Serianni, G., Toigo, V., Trevisan, L., Visentin, M., Zaccaria, P., Zaupa, M., Boilson, D., Graceffa, J., Hemsworth, R. S., Choi, C. H., Marti, M., Roux, K., Singh, M. J., Masiello, A., Fröschle, M., Heinemann, B., Nocentini, R., Riedl, R., Tobari, H., Esch, H. P. L. de, and Muvvala, V. N.: Final design of the beam source for the MITICA injector. *Review of Scientific Instruments* 87, 02B309 (2016).
- Markelj, S., Zaloznik, A., Schwarz-Selinger, T., Ogorodnikova, O., Vavpetic, P., Pelicon, P., and Cadez, I.: In situ NRA study of hydrogen isotope exchange in self-ion damaged tungsten exposed to neutral atoms. *Journal of Nuclear Materials* 469, 133-144 (2016).
- Markina, E., Mayer, M., Manhard, A., and Schwarz-Selinger, T.: Recovery temperatures of defects in tungsten created by self-implantation. *Journal of Nuclear Materials* 463, 329-332 (2015).
- Martitsch, A. F., Kasilov, S. V., Kernbichler, W., Kapper, G., Albert, C. G., Heyn, M. F., Smith, H. M., Strumberger, E., Fietz, S., Suttrop, W., Landreman, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Effect of 3D magnetic perturbations on the plasma rotation in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 58, 074007 (2016).
- Marushchenko, N.: Summary for the Theory Session at EC-18. *EPJ Web of Conferences* 87, 01001 (2015).
- Marushchenko, N. B., Beidler, C. D., Erckmann, V., Geiger, J., Helander, P., Laqua, H. P., Maassberg, H., and Turkin, Y.: ECRH scenario with selective heating of trapped/passing electrons in the W7-X Stellarator. *EPJ Web of Conferences* 87, 01007 (2015).
- Matthews, G. F., Bazylev, B., Baron-Wiechec, A., Coenen, J., Heinola, K., Kiptily, V., Maier, H., Reux, C., Riccardo, V., Rimini, F., Sergienko, G., Thompson, V., Widdowson, A., and JET Contributors: Melt damage to the JET ITER-like Wall and divertor. *Physica Scripta*, T167, 014070 (2016).
- Maurizio, R., Fantz, U., Bonomo, F., and Serianni, G.: Characterisation of the properties of a negative hydrogen ion beam by several beam diagnostic techniques. *Nuclear Fusion* 56, 066012 (2016).
- Maviglia, F., Federici, G., Strohmayer, G., Wenninger, R., Bachmann, C., Albanese, R., Ambrosino, R., Li, M., Loschiavo, V. P., You, J. H., and Zani, L.: Limitations of transient power loads on DEMO and analysis of mitigation techniques. *Fusion Engineering and Design* 109-111, Pt. B, 1067-1071 (2016).
- Mayer, M.: Computer simulation of ion beam analysis of laterally inhomogeneous materials. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 371, 90-96 (2016).
- Mayer, M., Krat, S., Van Renterghem, W., Baron-Wiechec, A., Brezinsek, S., Bykov, I., Coad, P., Gasparyan, Y., Heinola, K., Likonen, J., Pisarev, A., Ruset, C., Saint-Aubin, G. de, Widdowson, A., and JET Contributors: Erosion and deposition in the JET divertor during the first ILW campaign. *Physica Scripta* T167, 014051 (2016).
- Mayer, M., Malinsky, P., Schiettekatte, F., and Zolnai, Z.: Intercomparison of ion beam analysis software for the simulation of backscattering spectra from two-dimensional structures. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 385, 65-73 (2016).
- McClements, K. G., D'Inca, R., Dendy, R. O., Carbajal, L., Chapman, S. C., Cook, J. W. S., Harvey, R. W., Heidbrink, W. W.,

and Pinches, S. D.: Fast particle-driven ion cyclotron emission (ICE) in tokamak plasmas and the case for an ICE diagnostic in ITER. *Nuclear Fusion* 55, 043013 (2015).

Mehrenberger, M., Mendoza, L. S., Prouveur, C., and Sonnendrücker, E.: Solving the guiding-center model on a regular hexagonal mesh. *ESAIM: Proceedings and Surveys* 53, 149-176 (2016).

Meisl, G., Schmid, K., Krieger, K., Oberkofler, M., Lisgo, S. W., and JET Contributors: Simulating the nitrogen migration in Be/W tokamaks with WallDYN. *Physica Scripta* T167, 014079 (2016).

Meisl, G., Schmid, K., Oberkofler, M., Krieger, K., Lisgo, S., Aho-Mantila, L., Reimold, F., and ASDEX Upgrade Team: Nitrogen retention in ASDEX Upgrade. *Journal of Nuclear Materials* 463, 668-671 (2015).

Meisl, G., Schmid, K., Oberkofler, M., Krieger, K., Lisgo, S. W., Aho-Mantila, L., Reimold, F., Lunt, T., and ASDEX Upgrade Team: Experimental analysis and WallDYN simulations of the global nitrogen migration in ASDEX Upgrade L-mode discharges. *Nuclear Fusion* 56, 036014 (2016).

Meister, H., Kasparek, W., Zhang, D., Hirsch, M., Koll, J., and Zeitler, A.: Millimetre wave attenuation of prototype diagnostic components for the ITER bolometers. *Fusion Engineering and Design* 96-97, 861-864 (2015).

Mendelevitch, B., Boscaro, J., Peacock, A., Smirnow, M., and Stadler, R.: Water-cooling system of the W7-X plasma facing components. *Fusion Engineering and Design* 98-99, 1235-1238 (2015).

Merlo, G., Brunner, S., Sauter, O., Camenen, Y., Görler, T., Jenko, F., Marinoni, A., Told, D., and Villard, L.: Investigating profile stiffness and critical gradients in shaped TCV discharges using local gyrokinetic simulations of turbulent transport. *Plasma Physics and Controlled Fusion* 57, 054010 (2015).

Merlo, G., Sauter, O., Brunner, S., Burckel, A., Camenen, Y., Casson, F. J., Dorland, W., Fable, E., Görler, T., Jenko, F., Peeters, A. G., Told, D., and Villard, L.: Linear multispecies gyrokinetic flux tube benchmarks in shaped tokamak plasmas. *Physics of Plasmas* 23, 032104 (2016).

Miettunen, J., Airila, M. I., Groth, M., Lindholm, V., Makkonen, T., Äkäslompolo, S., and ASDEX Upgrade Team: Influence of toroidal field ripple and resonant magnetic perturbations on global ^{13}C transport in ASDEX Upgrade. *Journal of Nuclear Materials* 463, 459-462 (2015).

Mikhailov, M. I., Nührenberg, J., and Zille, R.: Approximate quasi-isodynamicity at a finite aspect ratio in a stellarator vacuum magnetic field. *Plasma Physics Reports* 41, 1046-1048 (2015).

Mikhailov, M. I., Shchepetov, S. V., Nührenberg, C., and Nührenberg, J.: Global magnetohydrodynamic instabilities in the L-2M stellarator. *Plasma Physics Reports* 41, 1016-1022 (2015).

Mishchenko, A., Borchardt, M., Cole, M., Hatzky, R., Feher, T., Kleiber, R., Koenies, A., and Zocco, A.: Global linear gyrokinetic particle-in-cell simulations including electromagnetic effects in shaped plasmas. *Nuclear Fusion* 55, 053006 (2015).

Miyato, N., Yagi, M., and Scott, B. D.: On push-forward representations in the standard gyrokinetic model. *Physics of Plasmas* 22, 012103 (2015).

Mlynar, J., Tomes, M., Imrisek, M., Alper, B., O'Mullane, M., Odstrcil, T., Pütterich, T., and JET EFDA Contributors: Soft X-ray tomographic reconstruction of JET ILW plasmas with tungsten impurity and different spectral response of detectors. *Fusion Engineering and Design* 96-97, 869-872 (2015).

Mochalskyy, S., Wunderlich, D., Fantz, U., Franzen, P., and Minea, T.: Towards a realistic 3D simulation of the extraction region in ITER NBI relevant ion source. *Nuclear Fusion* 55, 033011 (2015).

Mollén, A., Landreman, M., Smith, H. M., Braun, S., and Helander, P.: Impurities in a non-axisymmetric plasma: Transport and effect on bootstrap current. *Physics of Plasmas* 22, 112508 (2015).

Mollén, A., Smith, H. M., and Helander, P.: Den nya stelleratorn har startat. *Fysikaktuellt* 01, 16-17 (2016).

Monreal, P., Calvo, I., Sánchez, E., Parra, F. I., Bustos, A., Könies, A., Kleiber, R., and Görler, T.: Residual zonal flows in tokamaks and stellarators at arbitrary wavelengths. *Plasma Physics and Controlled Fusion* 58, 045018 (2016).

Morales, J. A., Bécoutlet, M., Garbet, X., Orain, F., Dif-Pradalier, G., Hoelzl, M., Pamela, S., Huijsmans, G. T. A., Cahyna, P., Fil, A., Nardon, E., Passeron, C., and Latu, G.: Edge localized mode rotation and the nonlinear dynamics of filaments. *Physics of Plasmas* 23, 042513 (2016).

Moseev, D., Laqua, H. P., Marsen, S., Stange, T., Braune, H., Erckmann, V., Gellert, F., and Oosterbeek, J. W.: Absolute

- calibration of sniffer probes on Wendelstein 7-X. *Review of Scientific Instruments* 87, 083505 (2016).
- Mucke, M., Arion, T., Förstel, M., Lischke, T., and Hergenhahn, U.: Competition of inelastic electron scattering and Interatomic Coulombic Decay in Ne clusters. *Journal of Electron Spectroscopy and Related Phenomena* 200, 232-238 (2015).
- Müller, H. W., Bernert, M., Carralero, D., Kallenbach, A., Kurzan, B., Scarabosio, A., Sieglin, B., Tophøj, L., Vianello, N., Wolfrum, E., and ASDEX Upgrade Team: Far scrape-off layer particle and heat fluxes in high density – High power scenarios. *Journal of Nuclear Materials* 463, 739-743 (2015).
- Munoz, P. A., Told, D., Kilian, P., Büchner, J., and Jenko, F.: Gyrokinetic and kinetic particle-in-cell simulations of guide-field reconnection. I. Macroscopic effects of the electron flows. *Physics of Plasmas* 22, 082110 (2015).
- Muraoka, K., Wagner, F., Yamagata, Y., and Donné, A. J. H.: Short- and long-range energy strategies for Japan and the world after the Fukushima nuclear accident. *Journal of Instrumentation* 11, C01082 (2016).
- Mutzke, A., Bandelow, G., and Schneider, R.: Sputtering of mixed materials of beryllium and tungsten by hydrogen and helium. *Journal of Nuclear Materials* 467, Part 1, 413-417 (2015).
- Na, D. H., Na, Y.-S., Lee, S. G., Angioni, C., Yang, S. M., Kim, H.-S., Hahm, T. S., Ko, W. H., Jhang, H., Lee, W. J., and KSTAR Team: Observation of the intrinsic rotation in KSTAR Ohmic L-mode plasmas. *Nuclear Fusion* 56, 036011 (2016).
- Nakano, T., Shumack, A. E., Maggi, C. F., Reinke, M., Lawson, K. D., Coffey, I., Pütterich, T., Brezinsek, S., Lipschultz, B., Matthews, G. F., Chernyshova, M., Jakubowska, K., Scholz, M., Rzadkiewicz, J., Czarski, T., Dominik, W., Kasprowicz, G., Pozniak, K., Zabolotny, W., Zastrow, K.-D., Conway, N. J., and JET Contributors: Determination of tungsten and molybdenum concentrations from an x-ray range spectrum in JET with the ITER-like wall configuration. *Journal of Physics B: Atomic, Molecular and Optical Physics* 48, 144023 (2015).
- Neu, G., Cole, R., Gräter, A., Lüddecke, K., Rapson, C. J., Raupp, G., Treutterer, W., Zasche, D., Zehetbauer, T., and ASDEX Upgrade Team: The ASDEX Upgrade Parameter Server. *Fusion Engineering and Design* 96-97, 676-679 (2015).
- Neu, R., Bobkov, V., Bock, A., Bernert, M., Beurskens, M., Herrmann, A., Kallenbach, A., Lang, P. T., Noterdaeme, J.-M., Pautasso, G., Reich, M., Schweinzer, J., Stober, J., Suttrop, W., Zohm, H., and Kirk, A.: The ASDEX Upgrade Program Targeting Gaps to Fusion Energy. *IEEE Transactions on Plasma Science* 44, 1472-1480 (2016).
- Neu, R., Kallenbach, A., Zohm, H., and ASDEX Upgrade Team: ASDEX Upgrade. *Magnetic Fusion Energy: From Experiments to Power Plants*. (Ed.) G. H. Neilson, Elsevier Science, Amsterdam, 93-118 (2016).
- Neu, R., Riesch, J., Coenen, J. W., Brinkmann, J., Calvo, A., Elgeti, S., Garcia-Rosales, C., Greuner, H., Hoeschen, T., Holzner, G., Klein, F., Koch, F., Linsmeier, C., Litnovsky, A., Wegener, T., Wurster, S., and You, J.-H.: Advanced tungsten materials for plasma-facing components of DEMO and fusion power plants. *Fusion Engineering and Design* 109-111, Pt. A, 1046-1052 (2016).
- Nielsen, S. K., Stejner, M., Rasmussen, J., Jacobsen, A. S., Korsholm, S. B., Leipold, F., Maraschek, M., Meo, F., Michelsen, P. K., Moseev, D., Salewski, M., Schubert, M., Stober, J., Suttrop, W., Tardini, G., and Wagner, D.: Measurements of the fast-ion distribution function at ASDEX upgrade by collective Thomson scattering (CTS) using active and passive views. *Plasma Physics and Controlled Fusion* 57, 035009 (2015).
- Nocentini, R., Bonomo, F., Pimazzoni, A., Fantz, U., Franzen, P., Fröschle, M., Heinemann, B., Pasqualotto, R., Riedl, R., Ruf, B., and Wunderlich, D.: Advanced Ion Beam Calorimetry for the Test Facility ELISE. *AIP Conference Proceedings* 1655, 060006 (2015).
- Nocentini, R., Bonomo, F., Ricci, M., Pimazzoni, A., Fantz, U., Heinemann, B., Riedl, R., and Wunderlich, D.: Beam calorimetry at the large negative ion source test facility ELISE: Experimental setup and latest results. *Fusion Engineering and Design* 109-111, Pt. A, 673-677 (2016).
- Nocentini, R., Heinemann, B., Riedl, R., Rust, N., and Orozco, G.: Design of the torus interface for the neutral beam injectors of Wendelstein 7-X. *Fusion Engineering and Design* 100, 453-460 (2015).
- Nouailletas, R., Ravenel, N., Signoret, J., Treutterer, W., Spring, A., Lewerentz, M., Rapson, C. J., Masand, H., Dhongde, J., Moreau, P., Guilleminet, B., Brémond, S., Allegretti, L., Raupp, G., Werner, A., Saint Laurent, F., Nardon, E., and Bhandarkar, M.: From the conceptual design to the first simulation of the new WEST plasma control system. *Fusion Engineering and Design* 96-97, 680-684 (2015).
- Nührenberg, C.: Free-boundary ideal MHD stability of W7-X divertor equilibria. *Nuclear Fusion* 56, 076010 (2016).

Oberkofler, M., Alegre, D., Aumayr, F., Brezinsek, S., Dittmar, T., Dobes, K., Douai, D., Drenik, A., Köppen, M., Kruezi, U., Linsmeier, Ch., Lungu, C. P., Meisl, G., Mozetic, M., Porosnicu, C., Rohde, V., Romanelli, S. G., ASDEX Upgrade Team, and JET EFDA Contributors: Plasma-wall interactions with nitrogen seeding in all-metal fusion devices: Formation of nitrides and ammonia. *Fusion Engineering and Design* 98-99, 1371-1374 (2015).

Oberkofler, M., Meisl, G., Hakola, A., Drenik, A., Alegre, D., Brezinsek, S., Craven, R., Dittmar, T., Keenan, T., Romanelli, S. G., Smith, R., Douai, D., Herrmann, A., Krieger, K., Kruezi, U., Liang, G., Linsmeier, C., Mozetic, M., Rohde, V., ASDEX Upgrade Team, EUROfusion MST1 Team, and JET Contributors: Nitrogen retention mechanisms in tokamaks with beryllium and tungsten plasma-facing surfaces. *Physica Scripta* T167, 014077 (2016).

Oberparleiter, M., Jenko, F., Told, D., Doerk, H., and Goerler, T.: Interaction between neoclassical effects and ion temperature gradient turbulence in gradient- and flux-driven gyrokinetic simulations. *Physics of Plasmas* 23, 042509 (2016).

Ochoukov, R., Bobkov, V., Faugel, H., Fünfgelder, H., Jacquot, J., Noterdaeme, J.-M., Suarez Lopez, G., and ASDEX Upgrade Team: ICRF wave field measurements in the presence of scrape off layer turbulence on the ASDEX Upgrade tokamak (invited). *Review of Scientific Instruments* 87, 11D301 (2016).

Ochoukov, R., Bobkov, V., Faugel, H., Fünfgelder, H., Noterdaeme, J.-M., and ASDEX Upgrade Team: A new B-dot probe-based diagnostic for amplitude, polarization, and wavenumber measurements of ion cyclotron range-of frequency fields on ASDEX Upgrade. *Review of Scientific Instruments* 86, 115112 (2015).

Ogorodnikova, O. V., and Gann, V.: Simulation of neutron-induced damage in tungsten by irradiation with energetic self-ions. *Journal of Nuclear Materials* 460, 60-71 (2015).

Ogorodnikova, O. V., Markelj, S., and Toussaint, U. von: Interaction of atomic and low-energy deuterium with tungsten pre-irradiated with self-ions. *Journal of Applied Physics* 119, 054901 (2016).

Ondac, P., Horacek, J., Seidl, J., Vondracek, P., Müller, H. W., Adamek, J., and Nielsen, A. H.: Comparison between 2D turbulence model ESEL and experimental data from AUG and COMPASS tokamaks. *Acta Polytechnica* 55, 128-135 (2015).

Ongena, J., Koch, R., Wolf, R. C., and Zohm, H.: Magnetic-confinement fusion. *Nature Physics* 12, 398-410 (2016).

Oosterbeek, J. W., Udintsev, V. S., Gandini, F., Hirsch, M., Laqua, H. P., Maassen, N., Ma, Y., Polevoi, A., Sirinelli, A., Vayakis, G., and Walsh, M. J.: Loads due to stray microwave radiation in ITER. *Fusion Engineering and Design* 96-97, 553-556 (2015).

Orain, F., Becoulet, M., Huijsmans, G. T. A., Dif-Pradalier, G., Hoelzl, M., Morales, J., Garbet, X., Nardon, E., Pamela, S., Passeron, C., Latu, G., Fil, A., and Cahyna, P.: Resistive Reduced MHD Modeling of Multi-Edge-Localized-Mode Cycles in Tokamak X-Point Plasmas. *Physical Review Letters* 114, 035001 (2015).

Orain, F., Becoulet, M., Morales, J., Huijsmans, G. T. A., Dif-Pradalier, G., Hoelzl, M., Garbet, X., Pamela, S., Nardon, E., Passeron, C., Latu, G., Fil, A., and Cahyna, P.: Non-linear MHD modeling of edge localized mode cycles and mitigation by resonant magnetic perturbations. *Plasma Physics and Controlled Fusion* 57, 014020 (2015).

Orozco, G., Fröschle, M., Heinemann, B., Hopf, C., Nocentini, R., and Riedl, R.: Optimization of Large Titanium Sublimation Pumps for the Neutral Beam Injection System on AUG and W7-X. *IEEE Transactions on Plasma Science* 44, 1553-1558 (2016).

Otte, M., Assmus, D., Biedermann, C., Bozhenkov, S., Bräuer, T., Dudek, A., Geiger, J., Kocsis, G., Lazerson, S., and Pedersen, T. S.: Setup and initial results from the magnetic flux surface diagnostics at Wendelstein 7-X. *Plasma Physics and Controlled Fusion* 58, 064003 (2016).

Pablant, N. A., Satake, S., Yokoyama, M., Gates, D. A., Bitter, M., Bertelli, N., Delgado-Aparicio, L., Dinklage, A., Goto, M., Hill, K. W., Igamai, S., Kubo, S., Lazerson, S., Matsuoka, S., Mikkelsen, D. R., Morita, S., Oishi, T., Seki, R., Shimozuma, T., Suzuki, C., Suzuki, Y., Takahashi, H., Yamada, H., Yoshimura, Y., and LHD Group: Investigation of ion and electron heat transport of high-T_e ECH heated discharges in the large helical device. *Plasma Physics and Controlled Fusion* 58, 045004 (2016).

Pamela, S., Eich, T., Frassinetti, L., Sieglin, B., Saarelma, S., Huijsmans, G., Hözl, M., Becoulet, M., Orain, F., Devaux, S., Chapman, I., Lupelli, I., Solano, E., and JET Contributors: Non-linear MHD simulations of ELMs in JET and quantitative comparisons to experiments. *Plasma Physics and Controlled Fusion* 58, 014026 (2016).

Papp, G., Drevlak, M., Pokol, G. I., and Fülöp, T.: Energetic electron transport in the presence of magnetic perturbations in magnetically confined plasmas. *Journal of Plasma Physics* 81, 475810503 (2015).

- Pardanaud, C., Addab, Y., Martin, C., Roubin, P., Pegourie, B., Oberkofler, M., Köppen, M., Dittmar, T., and Linsmeier, Ch.: Raman microscopy as a defect microprobe for hydrogen bonding characterization in materials used in fusion applications. *Physica Status Solidi C* 12, 98-101 (2015).
- Pardanaud, C., Martin, C., Cartry, G., Ahmad, A., Schiesko, L., Giacometti, G., Carrere, M., and Roubin, P.: In-plane and out-of-plane defects of graphite bombarded by H, D and He investigated by atomic force and Raman microscopies. *Journal of Raman Spectroscopy* 46, (2015).
- Pardanaud, C., Rusu, M. I., Martin, C., Giacometti, G., Roubin, P., Ferro, Y., Allouche, A., Oberkofler, M., Köppen, M., Dittmar, T., and Linsmeier, Ch.: Hydrogen retention in beryllium: concentration effect and nanocrystalline growth. *Journal of Physics: Condensed Matter* 27, 475401 (2015).
- Paris, P., Piip, K., Hakola, A., Laan, M., Aints, M., Koivuranta, S., Likonen, J., Lissovski, A., Mayer, M., Neu, R., Rohde, V., Sugiyama, K., and ASDEX Upgrade Team: Development of laser induced breakdown spectroscopy for studying erosion, deposition, and fuel retention in ASDEX Upgrade. *Fusion Engineering and Design* 98-99, 1349-1352 (2015).
- Parra, F. I., Calvo, I., Helander, P., and Landreman, M.: Less constrained omnigenous stellarators. *Nuclear Fusion* 55, 033005 (2015).
- Pasch, E., Beurskens, M. N. A., Bozhenkov, S. A., Fuchert, G., Knauer, J., Wolf, R. C., and W7-X Team: The Thomson scattering system at Wendelstein 7-X. *Review of Scientific Instruments* 87, 11E729 (2016).
- Pautasso, G., Mlynek, A., Bernert, M., Mank, K., Herrmann, A., Dux, R., Müller, H. W., Scarabosio, A., Sertoli, M., and ASDEX Upgrade Team: Assimilation of impurities during massive gas injection in ASDEX Upgrade. *Nuclear Fusion* 55, 033015 (2015).
- Pavei, M., Boilson, D., Bonicelli, T., Boury, J., Bush, M., Ceracchi, A., Faso, D., Graceffa, J., Heinemann, B., Hemsworth, R., Lievin, C., Marcuzzi, D., Masiello, A., Szepaniak, B., Singh, M., Toigo, V., and Zaccaria, P.: Manufacturing of the full size prototype of the ion source for the ITER neutral beam injector – The SPIDER beam source. *Fusion Engineering and Design* 96-97, 319-324 (2015).
- Pavei, M., Böswirth, B., Greuner, H., Marcuzzi, D., Rizzolo, A., and Valente, M.: Development and tests of molybdenum armored copper components for MITICA ion source. *Review of Scientific Instruments* 87, 02B126 (2016).
- Paz-Soldan, C., La Haye, R. J., Shiraki, D., Buttery, R. J., Eidietis, N. W., Hollmann, E. M., Moyer, R. A., Boom, J., Chapman, I. T., and JET Contributors: The non-thermal origin of the tokamak low-density stability limit. *Nuclear Fusion* 56, 056010 (2016).
- Pedersen, T. S., Andreeva, T., Bosch, H.-S., Bozhenkov, S., Effenberg, F., Endler, M., Feng, Y., Gates, D. A., Geiger, J., Hartmann, D. A., Hölbe, H., Jakubowski, M., König, R., Laqua, H. P., Lazerson, S., Otte, M., Preynas, M., Schmitz, O., Stange, T., Turkin, Y., and W7-X Team: Plans for the first plasma operation of Wendelstein 7-X. *Nuclear Fusion* 55, 126001 (2015).
- Pedrosa, M. A., Alonso, J. A., Garcia-Regana, J. M., Hidalgo, C., Velasco, J. L., Calvo, I., Kleiber, R., Silva, C., and Helander, P.: Electrostatic potential variations along flux surfaces in stellarators (Letter). *Nuclear Fusion* 55, 052001 (2015).
- Peeters, A. G., Rath, F., Buchholz, R., Camenen, Y., Candy, J., Casson, F. J., Grosshauser, S. R., Hornsby, W. A., Strintzi, D., and Weikl, A.: Gradient-driven flux-tube simulations of ion temperature gradient turbulence close to the non-linear threshold. *Physics of Plasmas* 23, 082517 (2016).
- Penzel, F., Meister, H., Sehmer, T., and Koch, A. W.: Automatisierte Vermessung der Sichtliniencharakteristik von Bolometerkameras für die Fusionsforschung. *tm – Technisches Messen* 82, 517-525 (2015).
- Pinches, S. D., Chapman, I. T., Lauber, P., Oliver, H. J. C., Sharapov, S. E., Shinohara, K., and Tani, K.: Energetic ions in ITER plasmas. *Physics of Plasmas* 22, 021807 (2015).
- Plaum, B., Lechte, C., Kasparek, W., Gaiser, S., Zeitler, A., Erckmann, V., Weißgerber, M., Bechtold, A., Busch, M., and Szepaniak, B.: Design of a remote steering antenna for ECRH heating in the stellarator Wendelstein 7-X. *Fusion Engineering and Design* 96-97, 568-572 (2015).
- Plöckl, B., Day, C., Lamalle, P., Lang, P. T., Rohde, V., Viezzer, E., and ASDEX Upgrade Team: The enhanced pellet centrifuge launcher at ASDEX Upgrade: Advanced operation and application as technology test facility for ITER and DEMO. *Fusion Engineering and Design* 96-97, 155-158 (2015).
- Plunk, G. G.: On the nonlinear stability of a quasi-two-dimensional drift kinetic model for ion temperature gradient turbulence. *Physics of Plasmas* 22, 042305 (2015).
- Plunk, G. G., Banon Navarro, A., and Jenko, F.: Understanding nonlinear saturation in zonal-flow-dominated ion

temperature gradient turbulence. *Plasma Physics and Controlled Fusion* 57, 045005 (2015).

Poli, E., Angioni, C., Casson, F. J., Farina, D., Figini, L., Goodman, T., Maj, O., Sauter, O., Weber, H., Zohm, H., Saibene, G., and Henderson, M.: On the criteria guiding the design of the upper electron-cyclotron launcher for ITER. *EPJ Web of Conferences* 87, 01008 (2015).

Poli, E., Angioni, C., Casson, F. J., Farina, D., Figini, L., Goodman, T. P., Maj, O., Sauter, O., Weber, H., Zohm, H., Saibene, G., and Henderson, M. A.: On recent results in the modelling of neoclassical-tearing-mode stabilization via electron cyclotron current drive and their impact on the design of the upper EC launcher for ITER. *Nuclear Fusion* 55, 013023 (2015).

Poli, E., Bergmann, A., Casson, F. J., Hornsby, W. A., Peeters, A. G., Siccino, M., and Zarzoso, D.: Kinetic effects on the currents determining the stability of a magnetic island in tokamaks. *Plasma Physics Reports* 42, 450–464 (2016).

Pope, K. S., Dose, V., Da Silva, D., Brown, P. H., and DeJong, T. M.: Nut crop yield records show that budbreak-based chilling requirements may not reflect yield decline chill thresholds. *International Journal of Biometeorology* 59, 707-715 (2015).

Potzel, S., Wischmeier, M., Bernert, M., Dux, R., Reimold, F., Scarabosio, A., Brezinsek, S., Clever, M., Huber, A., Meigs, A., Stamp, M., ASDEX Upgrade Team, and JET-EFDA Contributors: Formation of the high density front in the inner far SOL at ASDEX Upgrade and JET. *Journal of Nuclear Materials* 463, 541-545 (2015).

Poulopoulos, G., Throumoulopoulos, G. N., Konz, C., and ITM-TF Contributors: Remapping HELENA to incompressible plasma rotation parallel to the magnetic field. *Physics of Plasmas* 23, 072507 (2016).

Predebon, I., and Xanthopoulos, P.: Ion temperature gradient turbulence in helical and axisymmetric RFP plasmas. *Physics of Plasmas* 22, 052308 (2015).

Preuss, R., and Toussaint, U. von: Gaussian Processes for SOLPS Data Emulation. *Fusion Science and Technology* 69, 605-610 (2016).

Preuss, R., and Toussaint, U. von: Investigations on Bayesian uncertainty quantification with two examples. *AIP Conference Proceedings* 1757, 060001 (2016).

Preynas, M., Aßmus, D., Igami, H., Kado, S., Kobayashi, S., Kubo, S., Laqua, H. P., Mutoh, T., Nagasaki, K., Otte, M.,

Shimozuma, T., Stange, T., and Yoshimura, Y.: Experimental characterization of plasma start-up using ECRH in preparation of W7-X operation. *EPJ Web of Conferences* 87, 02005 (2015).

Preynas, M., Laqua, H. P., Marsen, S., Reintrog, A., Corre, Y., Moncada, V., and Travere, J.-M.: A near infra-red video system as a protective diagnostic for electron cyclotron resonance heating operation in the Wendelstein 7-X stellarator. *Review of Scientific Instruments* 86, 113504 (2015).

Proll, J. H. E., Mynick, H. E., Xanthopoulos, P., Lazerson, S. A., and Faber, B. J.: TEM turbulence optimisation in stellarators. *Plasma Physics and Controlled Fusion* 58, 014006 (2016).

Pueschel, M. J., Terry, P. W., Told, D., and Jenko, F.: Enhanced magnetic reconnection in the presence of pressure gradients. *Physics of Plasmas* 22, 062105 (2015).

Puiatti, M. E., Dal Bello, S., Marrelli, L., Martin, P., Agostinetti, P., Agostini, M., Antoni, V., Auriemma, F., Barbisan, M., Barbui, T., Baruzzo, M., Battistella, M., Belli, F., Bettini, P., Bigi, M., Bilel, R., Boldrin, M., Bolzonella, T., Bonfiglio, D., Brombin, M., Buffa, A., Canton, A., Cappello, S., Carraro, L., Cavazzana, R., Cester, D., Chacon, L., Chapman, B. E., Chitarin, G., Ciaccio, G., Cooper, W. A., Dalla Palma, M., Deambrosis, S., Delogu, R., De Lorenzi, A., De Masi, G., Dong, J. Q., Escande, D. F., Esposito, B., Fassina, A., Fellin, F., Ferro, A., Finotti, C., Franz, P., Frassinetti, L., Furno Palumbo, M., Gaio, E., Ghezzi, F., Giudicotti, L., Gnesotto, F., Gobbin, M., Gonzales, W. A., Grando, L., Guo, S. C., Hanson, J. D., Hirshman, S. P., Innocente, P., Jackson, J. L., Kiyama, S., Komm, M., Laguardia, L., Li, C., Liu, S. F., Liu, Y. Q., Lorenzini, R., Luce, T. C., Luchetta, A., Mai-strello, A., Manduchi, G., Mansfield, D. K., Marchiori, G., Marconato, N., Marocco, D., Marcuzzi, D., Martines, E., Martini, S., Matsunaga, G., Mazzitelli, G., Miorin, E., Momo, B., Moresco, M., Okabayashi, M., Olofsson, E., Paccagnella, R., Patel, N., Pavei, M., Peruzzo, S., Pilan, N., Pigatto, L., Piovan, R., Piovesan, P., Piron, C., Piron, L., Predebon, I., Rea, C., Recchia, M., Rigato, V., Rizzolo, A., Roquemore, A. L., Rostagni, G., Russet, C., Ruzzon, A., Sajò-Bohus, L., Sakakita, H., Sanchez, R., Sarff, J. S., Sartori, E., Sattin, F., Scaggion, A., Scarin, P., Schmitz, O., Sonato, P., Spada, E., Spagnolo, S., Spolaore, M., Spong, D. A., Spizzo, G., Stevanato, L., Takechi, M., Taliercio, C., Terranova, D., Trevisan, G. L., Urso, G., Valente, M., Valisa, M., Veranda, M., Vianello, N., Viesti, G., Villone, F., Vincenzi, P., Visona', N., Wang, Z. R., White, R. B., Xanthopoulos, P., Xu, X. Y., Yanovskiy, V., Zamengo, A., Zanca, P., Zaniol, B., Zanotto, L., Zilli, E., and Zuin, M.: Overview of the RFX-mod contribution to the international Fusion Science Program. *Nuclear Fusion* 55, 104012 (2015).

- Qian, X., Peng, X., Fellinger, J., Boscaro, J., Bykov, V., Wang, Z., Ye, M., and Song, Y.: Assessment of the W7-X high heat flux divertor with thermo-mechanical analysis. *Fusion Engineering and Design* 109-111, Pt. A, 565-568 (2016).
- Qin, C., Zhang, X., Zhao, Y., Wan, B., Braun, F., Wang, L., Yang, Q., Yuan, S., Cheng, Y., and ICRF Team on EAST: Electromagnetic Analysis of the EAST 4-Strap ICRF Antenna with HFSS Code. *Plasma Science and Technology* 17, 167-172 (2015).
- Ramogida, G., Maddaluno, G., Villone, F., Albanese, R., Barbato, L., Crisanti, F., Mastrostefano, S., Mazzuca, R., Palmaccio, R., Rubinacci, G., Ventre, S., and Wenninger, R.: First disruption studies and simulations in view of the development of the DEMO Physics Basis. *Fusion Engineering and Design* 96-97, 348-352 (2015).
- Rampp, M., Preuss, R., Fischer, R., and ASDEX Upgrade Team: GPEC: A Real-Time-Capable Tokamak Equilibrium Code. *Fusion Science and Technology* 70, 1-13 (2016).
- Rapson, C. J., Humphreys, D. A., Maraschek, M., and Treutterer, W.: Comment on ‘Numerical study on neoclassical tearing mode stabilization via minimum seeking method for the island width growth rate.’ *Nuclear Fusion* 56, 038001 (2016).
- Rapson, C. J., Reich, M., Stober, J., Treutterer, W., and ASDEX Upgrade Team: Actuator management for ECRH at ASDEX Upgrade. *Fusion Engineering and Design* 96-97, 694-697 (2015).
- Rasinski, M., Möller, S., Steffens, J., Unterberg, B., Sugiyama, K., Schwarz-Selinger, T., Kreter, A., and Linsmeier, C.: Morphology and composition of Fe-W coatings after deuterium plasma exposure as a model system for RAFM steels. *Physica Scripta* T167, 014013 (2016).
- Rasmussen, J., Nielsen, S. K., Stejner, M., Galdon-Quiroga, J., Garcia-Munoz, M., Geiger, B., Jacobsen, A. S., Jaulmes, F., Korsholm, S. B., Lazanyi, N., Leipold, F., Ryter, F., Salewski, M., Schubert, M., Stober, J., Wagner, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Collective Thomson scattering measurements of fast-ion transport due to sawtooth crashes in ASDEX Upgrade. *Nuclear Fusion* 56, 112014 (2016).
- Rasmussen, J., Nielsen, S. K., Stejner, M., Geiger, B., Salewski, M., Jacobsen, A. S., Korsholm, S. B., Leipold, F., Michelsen, P. K., Moseev, D., Schubert, M., Stober, J., Tardini, G., Wagner, D., and ASDEX Upgrade Team: Consistency between real and synthetic fast-ion measurements at ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 075014 (2015).
- Rauner, D., Kurutz, U., and Fantz, U.: Comparison of Measured and Modelled Negative Hydrogen Ion Densities at the ECR-Discharge HOMER. *AIP Conference Proceedings* 1655, 020017 (2015).
- Reich, M., Bilato, R., Mszanowski, U., Poli, E., Rapson, C., Stober, J., Volpe, F., Zille, R., and ASDEX Upgrade Team: Real-time beam tracing for control of the deposition location of electron cyclotron waves. *Fusion Engineering and Design* 100, 73-80 (2015).
- Reimerdes, H., Canal, G. P., Duval, B. P., Labit, B., Lunt, T., Nespoli, F., Vijvers, W. A. J., De Temmerman, G., Lowry, C., Morgan, T. W., Tal, B., and Wischmeier, M.: Experimental investigation of neon seeding in the snowflake configuration in TCV. *Journal of Nuclear Materials* 463, 1196-1199 (2015).
- Reimold, F., Wischmeier, M., Bernert, M., Potzel, S., Coster, D., Bonnín, X., Reiter, D., Meisl, G., Kallenbach, A., Ahomantila, L., Stroth, U., and ASDEX Upgrade Team: Experimental studies and modeling of complete H-mode divertor detachment in ASDEX Upgrade. *Journal of Nuclear Materials* 463, 128-134 (2015).
- Reimold, F., Wischmeier, M., Bernert, M., Potzel, S., Kallenbach, A., Müller, H. W., Sieglin, B., Stroth, U., and ASDEX Upgrade Team: Divertor studies in nitrogen induced completely detached H-modes in full tungsten ASDEX Upgrade. *Nuclear Fusion* 55, 033004 (2015).
- Reiser, J., Rieth, M., Möslang, A., Greuner, H., Armstrong, D. E. J., Denk, T., Gräning, T., Hering, W., Hoffmann, A., Hoffmann, J., Leiste, H., Mrotzek, T., Pippan, R., Schulmeyer, W., Weingärtner, T., and Zabernig, A.: Tungsten (W) Laminate Pipes for Innovative High Temperature Energy Conversion Systems. *Advanced Engineering Materials* 17, 491-501 (2015).
- Reux, C., Plyusnin, V., Alper, B., Alves, D., Bazylev, B., Belonohy, E., Boboc, A., Brezinsek, S., Coffey, I., Decker, J., Drewelow, P., Devaux, S., Vries, P. C. de, Fil, A., Gerasimov, S., Giacomelli, L., Jachmich, S., Khilkevitch, E. M., Kiptily, V., Koslowski, R., Kruezi, U., Lehnen, M., Lupelli, I., Lomas, P. J., Manzanares, A., Martin De Aguilera, A., Matthews, G. F., Mlynář, J., Nardon, E., Nilsson, E., Perez von Thun, C., Riccardo, V., Saint-Laurent, F., Shevelev, A. E., Sips, G., Sozzi, C., and JET Contributors: Runaway electron beam generation and mitigation during disruptions at JET-ILW. *Nuclear Fusion* 55, 093013 (2015).

- Reux, C., Plyusnin, V., Alper, B., Alves, D., Bazylev, B., Belonohy, E., Boboc, A., Brezinsek, S., Coffey, I., Decker, J., Drewelow, P., Devaux, S., Vries, P. C. de, Fil, A., Gerasimov, S., Giacomelli, L., Jachmich, S., Khilkevitch, E. M., Kiptily, V., Koslowski, R., Kruezi, U., Lehnen, M., Lupelli, I., Lomas, P. J., Manzanares, A., Martin De Aguilera, A., Matthews, G. F., Mlynář, J., Nardon, E., Nilsson, E., Perez von Thun, C., Riccardo, V., Saint-Laurent, F., Shevelev, A. E., Sips, G., Sozzi, C., and JET Contributors: Corrigendum: Runaway electron beam generation and mitigation during disruptions at JET-ILW (2015) *Nucl. Fusion* 55, 093013. *Nuclear Fusion* 55, 129501 (2015).
- Richou, M., Missirlian, M., Guilhem, D., Lipa, M., Languille, P., Ferlay, F., Gallay, F., Greuner, H., Hernandez, C., Firdaouss, M., and Bucalossi, J.: Design and preliminary thermal validation of the WEST actively cooled upper divertor. *Fusion Engineering and Design* 98-99, 1394-1398 (2015).
- Richou, M., Missirlian, M., Tsitrone, E., Bucalossi, J., Desgranges, C., Firdaouss, M., Guilhem, D., Greuner, H., Hernandez, C., Lipa, M., Pintsuk, G., and Samaille, F.: The WEST project: validation program for WEST tungsten coated plasma facing components. *Physica Scripta* T167, 014029 (2016).
- Riemann, J., Kleiber, R., and Borchardt, M.: Effects of radial electric fields on linear ITG instabilities in W7-X and LHD. *Plasma Physics and Controlled Fusion* 58, 074001 (2016).
- Riesch, J., Han, Y., Almanstötter, J., Coenen, J. W., Höschens, T., Jasper, B., Zhao, P., Linsmeier, C., and Neu, R.: Development of tungsten fibre-reinforced tungsten composites towards their use in DEMO-potassium doped tungsten wire. *Physica Scripta* T167, 014006 (2016).
- Rimini, F. G., Alves, D., Arnoux, G., Baruzzo, M., Belonohy, E., Carvalho, I., Felton, R., Joffrin, E., Lomas, P., McCullen, P., Neto, A., Nunes, I., Reux, C., Stephen, A., Valcarcel, D., Wiesen, S., and JET EFDA Contributors: The development of safe high current operation in JET-ILW. *Fusion Engineering and Design* 96-97, 165-170 (2015).
- Riße, K., Birus, D., Bosch, H.-S., Bykov, V., Carls, A., Dhard, C. P., Fellinger, J., Mönnich, T., Nagel, M., Otte, M., Rummel, T., and Schneider, M.: Wendelstein 7-X – Commissioning of the Superconducting Magnet System. *IEEE Transactions on Applied Superconductivity* 26, 4202004 (2016).
- Rodatos, A., Greuner, H., Jakubowski, M. W., Boscary, J., Wurden, G. A., Pedersen, T. S., and König, R.: Detecting divertor damage during steady state operation of Wendelstein 7-X from thermographic measurements. *Review of Scientific Instruments* 87, 023506 (2016).
- Rohde, V., Oberkofler, M., and ASDEX Upgrade Team: Ammonia production in nitrogen seeded plasma discharges in ASDEX Upgrade. *Journal of Nuclear Materials* 463, 672-675 (2015).
- Rondeau, A., Peillon, S., Roynette, A., Sabroux, J.-C., Gelain, T., Gensdarmes, F., Rohde, V., Grisolia, C., and Chassefière, E.: Characterization of dust particles produced in an all-tungsten wall tokamak and potentially mobilized by airflow. *Journal of Nuclear Materials* 463, 873-876 (2015).
- Rott, M., Arden, N., Eixenberger, H., Klädtke, K., Teschke, M., Sutrop, W., and ASDEX Upgrade Team: Electrical and mechanical adaptation of commercially available power inverter modules for BUSSARD – The power supply of ASDEX Upgrade in vessel saddle coils. *Fusion Engineering and Design* 98-99, 1144-1147 (2015).
- Rozhansky, V., Kaveeva, E., Molchanov, P., Veselova, I., Voskoboinikov, S., Coster, D., Fable, E., Puettnerich, T., Viezz, E., Kukushkin, A. S., Kirk, A., and ASDEX Upgrade Team: Understanding of impurity poloidal distribution in the edge pedestal by modelling. *Nuclear Fusion* 55, 073017 (2015).
- Rozhansky, V., Sytova, E., Senichenkov, I., Veselova, I., Voskoboinikov, S., and Coster, D.: Momentum balance for impurities in SOLPS transport code. *Journal of Nuclear Materials* 463, 477-479 (2015).
- Rubel, M., Petersson, P., Alves, E., Brezinsek, S., Coad, J. P., Heinola, K., Mayer, M., Widdowson, A., and JET Contributors: The role and application of ion beam analysis for studies of plasma-facing components in controlled fusion devices. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 371, 4-11 (2016).
- Rummel, T., Mönnich, T., Füllenbach, F., and Murray, T.: Overview and Status of Commissioning of the Wendelstein 7-X Magnet Power Supplies. *IEEE Transactions on Plasma Science* 44, 1586-1591 (2016).
- Runov, A., Kasilov, S., and Helander, P.: Energy and momentum preserving Coulomb collision model for kinetic Monte Carlo simulations of plasma steady states in toroidal fusion devices. *Journal of Computational Physics* 300, 605-622 (2015).
- Ruset, C., Grigore, E., Luculescu, C., Tiseanu, I., Likonen, J., Mayer, M., Rubel, M., Matthews, G. F., and JET Contributors: Investigation on the erosion/deposition processes in the ITER-like wall divertor at JET using glow discharge optical emission spectrometry technique. *Physica Scripta* T167, 014049 (2016).

- Ryan, D. A., Liu, Y. Q., Kirk, A., Suttrop, W., Dudson, B., Dunne, M., Fischer, R., Fuchs, J. C., Garcia-Munoz, M., Kurzan, B., Piovesan, P., Reinke, M., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Toroidal modelling of resonant magnetic perturbations response in ASDEX-Upgrade: coupling between field pitch aligned response and kink amplification. *Plasma Physics and Controlled Fusion* 57, 095008 (2015).
- Ryter, F., Cavedon, M., Happel, T., McDermott, R. M., Viezzier, E., Conway, G. D., Fischer, R., Kurzan, B., Pütterich, T., Tardini, G., Willensdorfer, M., and ASDEX Upgrade Team: L-H transition physics in hydrogen and deuterium: key role of the edge radial electric field and ion heat flux. *Plasma Physics and Controlled Fusion* 58, 014007 (2016).
- Sahoo, B. P., Sharma, D., Jha, R., and Feng, Y.: Flow structure and shear generation in the 3D SOL of a circular tokamak plasma in Aditya. *Nuclear Fusion* 55, 063042 (2015).
- Saitoh, H., Stanja, J., Stenson, E. V., Hergenhahn, U., Niemann, H., Pedersen, T. S., Stoneking, M., Piochacz, C., and Hugenschmidt, C.: Efficient injection of an intense positron beam into a dipole magnetic field. *New Journal of Physics* 17, 103038 (2015).
- Saitoh, H., Yano, Y., Yoshida, Z., Nishiura, M., Morikawa, J., Kawazura, Y., Nogami, T., and Yamasaki, M.: Measurement of a density profile of a hot-electron plasma in RT-1 with three-chord interferometry. *Physics of Plasmas* 22, 024503 (2015).
- Salewski, M., Geiger, B., Heidbrink, W. W., Jacobsen, A. S., Korsholm, S. B., Leipold, F., Madsen, J., Moseev, D., Nielsen, S. K., Rasmussen, J., Stagner, L., Steeghs, D., Stejner, M., Tardini, G., Weiland, M., and ASDEX Upgrade Team: Doppler tomography in fusion plasmas and astrophysics. *Plasma Physics and Controlled Fusion* 57, 014021 (2015).
- Salewski, M., Nocente, M., Gorini, G., Jacobsen, A. S., Kipitily, V. G., Korsholm, S. B., Leipold, F., Madsen, J., Moseev, D., Nielsen, S. K., Rasmussen, J., Stejner, M., Tardocchi, M., and JET Contributors: Fast-ion energy resolution by one-step reaction gamma-ray spectrometry. *Nuclear Fusion* 56, 046009 (2016).
- Salewski, M., Nocente, M., Gorini, G., Jacobsen, A. S., Kipitily, V. G., Korsholm, S. B., Leipold, F., Madsen, J., Moseev, D., Nielsen, S. K., Rasmussen, J., Stejner, M., Tardocchi, M., and JET Contributors: Velocity-space observation regions of high-resolution two-step reaction gamma-ray spectroscopy. *Nuclear Fusion* 55, 093029 (2015).
- Sanchez, J., Alegre, D., Alonso, A., Alonso, J., Alvarez, P., Arevalo, J., Ascasibar, E., Baciero, A., Baiao, D., Barcala, J. M., Blanco, E., Borchardt, M., Botija, J., Cabrera, S., Cal, E. de la, Calvo, I., Cappa, A., Carrasco, R., Castejón, F., Castro, R., De Castro, A., Catalan, G., Chmyga, A. A., Chamorro, M., Dinklage, A., Eliseev, L., Estrada, T., Fernandez-Marina, F., Fontdecaba, J. M., Garcia, L., Garcia-Gomez, R., Garcia-Regana, J. M., Guasp, J., Hatzky, R., Hernandez, J., Herranz, J., Hidalgo, C., Hollmann, E., Jimenez, J. A., Jimenez-Denche, A., Kirpitchev, I., Kleiber, R., Komarov, A. D., Kozachok, A. S., Krupnik, L., Lapayese, F., Liniers, M., Liu, B., Lopez-Bruna, D., Lopez-Fraguas, A., Lopez-Razola, J., Martin de Aguilera, A., Martin-Diaz, F., Martin-Hernandez, F., Martin-Rojo, A. B., Martinez-Fernandez, J., McCarthy, K. J., Medina, F., Medrano, M., Melon, L., Melnikov, A. V., Mendez, P., Milligen, B. van, Molinero, A., Monreal, P., Moreno, R., Navarro, M., Nedzelskiy, I. S., Ochando, M. A., Olivares, J., Oyarzabal, E., Pablos, J. L. de, Pacios, L., Pastor, I., Pedrosa, M. A., Pena, A. de la, Pereira, A., Petrov, A., Petrov, S., Portas, A. B., Ratta, G., Rincon, E., Rios, L., Rodriguez, C., Rojo, B., Ros, A., Sanchez, M., Sanchez, E., Sanchez-Sarabia, E., Sarksian, K., Satake, S., Sebastian, J. A., Silva, C., Solano, E. R., Soleto, A., Sun, B., Tabares, F. L., Tafalla, D., Tallents, S., Tolkachev, A., Vega, J., Velasco, G., Velasco, J. L., Wolfers, G., Yokoyama, M., and Zurro, B.: Transport, stability and plasma control studies in the TJ-II stellarator. *Nuclear Fusion* 55, 104014 (2015).
- Santos, J. M., Santos, G. S., Zilker, M., Guimaraes, L., Rapson, C., Treutterer, W., and Goncalves, B.: Enhancement of the ASDEX Upgrade Real-Time Plasma Position Reflectometry Diagnostic. *IEEE Transactions on Nuclear Science* 62, 1195-1200 (2015).
- Scarabosio, A., Eich, T., Hoppe, F., Paradela, I., Sieglin, B., Reimold, F., Rack, M., Groth, M., Wischmeier, M., Arnoux, G., Balboa, I., Marsen, S., ASDEX Upgrade Team, and JET-EFDA Contributors.: Scaling of the divertor power spreading (S-factor) in open and closed divertor operation in JET and ASDEX Upgrade. *Journal of Nuclear Materials* 463, 49-54 (2015).
- Schacht, J., Skodzik, J., and CoDaC Team: Multifunction-Timing Card ITTEV2 for CoDaC Systems of Wendelstein 7-X. *IEEE Transactions on Nuclear Science* 62, 1187-1194 (2015).
- Schiesko, L., Cartry, G., Hopf, C., Höschen, T., Meisl, G., Encke, O., Heinemann, B., Achkasov, K., Amsalem, P., and Fantz, U.: First experiments with Cs doped Mo as surface converter for negative hydrogen ion sources. *Journal of Applied Physics* 118, 073303 (2015).
- Schiesko, L., Cartry, G., Hopf, C., Höschen, T., Meisl, G., Encke, O., Franzen, P., Heinemann, B., Achkasov, K., Hopf, C., and Fantz, U.: Cs-Doped Mo as Surface Converter for H⁻/D⁻ Generation in Negative Ion Sources: First Steps and Proof of Principle. *AIP Conference Proceedings* 1655, 020003 (2015).

Schmid, K.: Diffusion-trapping modelling of hydrogen recycling in tungsten under ELM-like heat loads. *Physica Scripta* T167, 026007 (2016).

Schmid, K., Krieger, K., Lisgo, S. W., Meisl, G., Brezinsek, S., and JET Contributors: WALLDYN simulations of global impurity migration in JET and extrapolations to ITER. *Nuclear Fusion* 55, 053015 (2015).

Schmid, K., Krieger, K., Lisgo, S. W., Meisl, G., Brezinsek, S., and JET EFDA Contributors: Quantitative modeling of fuel retention in the JET-C and JET-ILW wall configurations by WallDYN and predictions for ITER. *Journal of Nuclear Materials* 463, 26-31 (2015).

Schmitz, O., Becoulet, M., Cahyna, P., Evans, T. E., Feng, Y., Frerichs, H., Loarte, A., Pitts, R. A., Reiser, D., Fenstermacher, M. E., Harting, D., Kirschner, A., Kukushkin, A., Lunt, T., Saibene, G., Reiter, D., Samm, U., and Wiesen, S.: Three-dimensional modeling of plasma edge transport and divertor fluxes during application of resonant magnetic perturbations on ITER. *Nuclear Fusion* 56, 066008 (2016).

Schneider, P. A., Barrera Orte, L., Burckhart, A., Dunne, M. G., Fuchs, C., Gude, A., Kurzan, B., Suttrop, W., Wolfrum, E., and ASDEX Upgrade Team: Pedestal and edge localized mode characteristics with different first wall materials and nitrogen seeding in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 014029 (2015).

Schneider, P. A., Blank, H., Geiger, B., Mank, K., Martinov, S., Ryter, F., Weiland, M., Weller, A., and ASDEX Upgrade Team: A new compact solid-state neutral particle analyser at ASDEX Upgrade: Setup and physics modeling. *Review of Scientific Instruments* 86, 073508 (2015).

Schneller, M., Lauber, P., and Briguglio, S.: Nonlinear energetic particle transport in the presence of multiple Alfvénic waves in ITER. *Plasma Physics and Controlled Fusion* 58, 014019 (2016).

Schröder, T., Grulke, O., Klinger, T., Boswell, R. W., and Charles, C.: Collisionless expansion of pulsed radio frequency plasmas. I. Front formation. *Physics of Plasmas* 23, 013511 (2016).

Schröder, T., Grulke, O., Klinger, T., Boswell, R. W., and Charles, C.: Collisionless expansion of pulsed radio frequency plasmas. II. Parameter study. *Physics of Plasmas* 23, 013512 (2016).

Schrödl, N., Bucher, E., Egger, A., Kreiml, P., Teichert, C., Höschen, T., and Sitte, W.: Long-term stability of the IT-SOFC cathode materials $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ and $\text{La}_2\text{NiO}_{4+\delta}$

against combined chromium and silicon poisoning. *Solid State Ionics* 276, 62-71 (2015).

Schubert, M., Herrmann, A., Monaco, F., Schütz, H., Stober, J., Vierle, T., Vorbrugg, S., Wagner, D., Zasche, D., Zehetbauer, T., Rohde, V., Zeidner, W., and ASDEX Upgrade Team: Machine safety issues with respect to the extension of ECRH systems at ASDEX Upgrade. *EPJ Web of Conferences* 87, 02010 (2015).

Schweinzer, J., Beurskens, M., Frassinetti, L., Joffrin, E., Bobkov, V., Dux, R., Fischer, R., Fuchs, C., Kallenbach, A., Hopf, C., Lang, P. T., Mlynek, A., Pütterich, T., Ryter, F., Stober, J., Tardini, G., Wolfrum, E., Zohm, H., EUROfusion MST1 Team, and ASDEX Upgrade Team: Development of the Q=10 scenario for ITER on ASDEX Upgrade (AUG). *Nuclear Fusion* 56, 106007 (2016).

Sehmer, T., Lackner, K., Strumberger, E., Fable, E., Kardaun, O., McCarthy, P., and ASDEX Upgrade Team: Growth of Axisymmetric Instabilities in ASDEX Upgrade. *Fusion Science and Technology* 70, 73-82 (2016).

Serianni, G., Bonomo, F., Brombin, M., Cervaro, V., Chitarin, G., Cristofaro, S., Delogu, R., De Muri, M., Fasolo, D., Fonnesu, N., Franchin, L., Franzen, P., Ghiraldelli, R., Molon, F., Muraro, A., Pasqualotto, R., Ruf, B., Schiesko, L., Tollin, M., and Veltri, P.: Negative Ion Beam Characterisation in BATMAN by mini-STRIKE: Improved Design and New Measurements. *AIP Conference Proceedings* 1655, 060007 (2015).

Sertoli, M., Dux, R., Pütterich, T., and ASDEX Upgrade Team: Modification of impurity transport in the presence of saturated $(m,n)=(1,1)$ MHD activity at ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 075004 (2015).

Sertoli, M., Flanagan, J. C., Bacharis, M., Kardaun, O., Jarvinen, A., Matthews, G. F., Brezinsek, S., Harting, D., Cackett, H., Hodille, E., Coffey, I. H., Lazzaro, E., Pütterich, T., and JET-EFDA Contributors: Impact of W events and dust on JET-ILW operation. *Journal of Nuclear Materials* 463, 837-841 (2015).

Sertoli, M., Flanagan, J. C., Bacharis, M., Kardaun, O., Jarvinen, A., Matthews, G. F., Brezinsek, S., Harting, D., Cackett, H., Hodille, E., Coffey, I. H., Lazzaro, E., Pütterich, T., and JET-EFDA Contributors: Corrigendum to: "Impact of W events and dust on JET-ILW operation" [J. Nuclear Mater. 463 (2015) 837-841]. *Journal of Nuclear Materials* 467, Part 1, (2015).

Sertoli, M., Odstrcil, T., Angioni, C., and ASDEX Upgrade Team: Interplay between central ECRH and saturated $(m, n)=(1, 1)$ MHD activity in mitigating tungsten accumulation at ASDEX Upgrade. *Nuclear Fusion* 55, 113029 (2015).

- Shabbir, A., Verdoollaeghe, G., Vega, J., and Murari, A.: ELM Regime Classification by Conformal Prediction on an Information Manifold. *IEEE Transactions on Plasma Science* 43, 4190-4199 (2015).
- Shao, L. M., Wolfrum, E., Ryter, F., Birkenmeier, G., Laggner, F. M., Viezz, E., Fischer, R., Willensdorfer, M., Kurzan, B., Lunt, T., and ASDEX Upgrade Team: On the role of the edge density profile for the L-H transition power threshold in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 58, 025004 (2016).
- Shi, L., Rampp, M., Hof, B., and Avila, M.: A hybrid MPI-OpenMP parallel implementation for pseudospectral simulations with application to Taylor-Couette flow. *Computers & Fluids* 106, (2015).
- Shimozuma, T., Igami, H., Kubo, S., Yoshimura, Y., Takahashi, H., Osakabe, M., Mutoh, T., Nishiura, M., Idei, H., Nagasaki, K., Marushchenko, N., Turkin, Y., and LHD Experiment Group: Optimization of the high harmonic ECRH scenario to extend a heating plasma parameter range in LHD. *Nuclear Fusion* 55, 063035 (2015).
- Sieglin, B., Eich, T., Faitsch, M., Herrmann, A., Scarabosio, A., and ASDEX Upgrade Team: Investigation of scrape-off layer and divertor heat transport in ASDEX Upgrade L-mode. *Plasma Physics and Controlled Fusion* 58, 055015 (2016).
- Sieglin, B., Faitsch, M., Herrmann, A., Brucker, B., Eich, T., Kammerloher, L., and Martinov, S.: Real time capable infrared thermography for ASDEX Upgrade. *Review of Scientific Instruments* 86, 113502 (2015).
- Sieglin, B., Faitsch, M., Herrmann, A., Martinov, S., Eich, T., and ASDEX Upgrade Team: Real-Time Infrared Thermography at ASDEX Upgrade. *Fusion Science and Technology* 69, 580-585 (2016).
- Silva, T. F., Rodrigues, C. L., Mayer, M., Moro, M. V., Trindade, G. F., Aguirre, F. R., Added, N., Rizzutto, M. A., and Tabacniks, M. H.: MultiSIMNRA: A computational tool for self-consistent ion beam analysis using SIMNRA. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 371, 86-89 (2016).
- Simon, P., Conway, G. D., Stroth, U., Biancalani, A., Palermo, F., and ASDEX Upgrade Team: Comparison of experiment and models of geodesic acoustic mode frequency and amplitude geometric scaling in ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 58, 045029 (2016).
- Singh, M. J., Boilson, D., Hemsworth, R. S., Chareyre, J., Decamps, H., Gelli, F., Graceffa, J., Schunke, B., Svensson, L., Shah, D., El Ouazzani, A., Urbani, M., Esch, H. P. L. de, Delmas, E., Antoni, V., Chitarin, G., Serianni, G., Marcuzzi, D., Toigo, V., Zaccaria, P., Fantz, U., Franzen, P., Heinemann, B., Kraus, W., Kashiwagi, M., Hanada, M., Tobari, H., Kuriyama, M., Masiello, A., and Bonicelli, T.: Heating Neutral Beams for ITER: Present Status. *IEEE Transactions on Plasma Science* 44, 1496-1505 (2016).
- Sips, A. C. C., Giruzzi, G., Ide, S., Kessel, C., Luce, T. C., Snipes, J. A., Stober, J. K., and Integrated Operation Scenario Topical Group of the ITPA: Progress in preparing scenarios for operation of the International Thermonuclear Experimental Reactor. *Physics of Plasmas* 22, 021804 (2015).
- Slaby, C., Könies, A., and Kleiber, R.: Numerical investigation of non-perturbative kinetic effects of energetic particles on toroidicity-induced Alfvén eigenmodes in tokamaks and stellarators. *Physics of Plasmas* 23, 092501 (2016).
- Smirnow, M., Boscar, J., Trites, H., Schubert, W., and Peacock, A.: Mechanical examination and analysis of W7-X divertor module sub-structures. *Fusion Engineering and Design* 98-99, 1399-1402 (2015).
- Sode, M., Jacob, W., Schwarz-Selinger, T., and Kersten, H.: Measurement and modeling of neutral, radical, and ion densities in H₂-N₂-Ar plasmas. *Journal of Applied Physics* 117, 083303 (2015).
- Sommer, F., Stober, J., Angioni, C., Fable, E., Bernert, M., Burkhart, A., Bobkov, V., Fischer, R., Fuchs, C., McDermott, R. M., Suttrop, W., Viezz, E., and ASDEX Upgrade Team: Transport properties of H-mode plasmas with dominant electron heating in comparison to dominant ion heating at ASDEX Upgrade. *Nuclear Fusion* 55, 33006 (2015).
- Sommerer, M., Li, M., Werner, E., Dewitz, H. von, Walter, S., Lampenscher, S., and Arnold, T.: Tape cast isotropic, fine-grained tungsten for thermo-cyclic loading applications. *Fusion Engineering and Design* 105, 39-52 (2016).
- Sonnendrücker, E., Wacher, A., Hatzky, R., and Kleiber, R.: A split control variate scheme for PIC simulations with collisions. *Journal of Computational Physics* 295, 402-419 (2015).
- Spolaore, M., Vianello, N., Furno, I., Carralero, D., Agostini, M., Alonso, J. A., Avino, F., Cavazzana, R., De Masi, G., Fasoli, A., Hidalgo, C., Martines, E., Momo, B., Scaglion, A., Scarin, P., Spagnolo, S., Spizzo, G., Theiler, C., and Zuin, M.: Electromagnetic turbulent structures: A ubiquitous

feature of the edge region of toroidal plasma configurations. *Physics of Plasmas* 22, 012310 (2015).

Stahl, A., Embréus, O., Papp, G., Landreman, M., and Fülöp, T.: Kinetic modelling of runaway electrons in dynamic scenarios. *Nuclear Fusion* 56, 112009 (2016).

Stange, T.: Simple Broadband Circular Polarizer in Oversized Waveguide. *Journal of Infrared, Millimeter, and Terahertz Waves* 37, 137-146 (2016).

Stanja, J., Hergenhahn, U., Niemann, H., Paschkowski, N., Pedersen, T. S., Saitoh, H., Stenson, E. V., Stoneking, M. R., Hugenschmidt, C., and Piochacz, C.: Characterization of the NEPOMUC primary and remoderated positron beams at different energies. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 827, 52-62 (2016).

Stechow, A. von, Grulke, O., and Klinger, T.: Experimental multiple-scale investigation of guide-field reconnection dynamics. *Plasma Physics and Controlled Fusion* 58, 014016 (2016).

Stegmeir, A., Coster, D., Maj, O., Hallatschek, K., and Lackner, K.: The field line map approach for simulations of magnetically confined plasmas. *Computer Physics Communications* 199, 139-153 (2016).

Steiner, C., Mehrenberger, M., Crouseilles, N., Grandgirard, V., Latu, G., and Rozar, F.: Gyroaverage operator for a polar mesh. *European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics* 69, 18 (2015).

Stejner, M., Nielsen, S. K., Jacobsen, A. S., Korsholm, S. B., Leipold, F., McDermott, R., Michelsen, P. K., Rasmussen, J., Salewski, M., Schubert, M., Stober, J., Wagner, D., and ASDEX Upgrade Team: Plasma rotation and ion temperature measurements by CTS at ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 57, 062001 (2015).

Stenson, E. V., Saitoh, H., Stanja, J., Niemann, H., Hergenhahn, U., Pedersen, T. S., Marx, G. H., Schweikhard, L., Danielson, J. R., Surko, C. M., and Hugenschmidt, C.: Progress toward positron-electron pair plasma experiments. *AIP Conference Proceedings* 1668, 040004 (2015).

Stepanov, I., Noterdaeme, J.-M., Bobkov, V., Faugel, H., Coster, D., Milanesio, D., Maggiore, R., Siegl, G., Bilato, R., and Brambilla, M.: A detailed comparison of antenna impedance measurements on ASDEX Upgrade with the ion cyclotron range of frequencies antenna code TOPICA. *Nuclear Fusion* 55, 113003 (2015).

Stephey, L., Wurden, G. A., Schmitz, O., Frerichs, H., Effenberg, F., Biedermann, C., Harris, J., König, R., Kornejew, P., Krychowiak, M., Unterberg, E. A., and W7-X Team: Spectroscopic imaging of limiter heat and particle fluxes and the resulting impurity sources during Wendelstein 7-X startup plasmas. *Review of Scientific Instruments* 87, 11D606 (2016).

Stober, J., Barrera, L., Behler, K., Bock, A., Buhler, A., Eixenberger, H., Giannone, L., Kasperek, W., Maraschek, M., Mlynek, A., Monaco, F., Poli, E., Rapson, C. J., Reich, M., Schubert, M., Treutterer, W., Wagner, D., Zohm, H., and ASDEX Upgrade Team: Feedback-controlled NTM stabilization on ASDEX Upgrade. *EPJ Web of Conferences* 87, 02017 (2015).

Stober, J., Bock, A., Fable, E., Sommer, F., Angioni, C., Leuterer, F., Monaco, F., Müller, S., München, M., Petzold, B., Poli, E., Schubert, M., Schütz, H., Wagner, D., Zohm, H., Meier, A., Scherer, T., Strauß, D., Jelonnek, J., Thumm, M., Kasperek, W., Plaum, B., Litvak, A., Denisov, G. G., Chirkov, A. V., Tai, E. M., Popov, L. G., Nichiporenko, V. O., Myasnikov, V. E., Soluyanova, E. A., Malygin, V., and ASDEX Upgrade Team: High power ECRH and ECCD in moderately collisional ASDEX Upgrade H-modes and status of EC system upgrade. *EPJ Web of Conferences* 87, 02004 (2015).

Storelli, A., Vermare, L., Hennequin, P., Gürcan, Ö. D., Dif-Pradalier, G., Sarazin, Y., Garbet, X., Görler, T., Singh, R., Morel, P., Grandgirard, V., Ghendrih, P., and Tore Supra Team: Comprehensive comparisons of GAM characteristics and dynamics between Tore Supra experiments and gyrokinetic simulations. *Physics of Plasmas* 22, 062508 (2015).

Ström, P., Petersson, P., Rubel, M., Primetzhofer, D., Brezinsek, S., Kreter, A., Unterberg, B., Sergienko, G., and Sugiyama, K.: Ion beam analysis of tungsten layers in EUROFER model systems and carbon plasma facing components. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 371, 355-359 (2016).

Stroth, U., Banon Navarro, A., Conway, G. D., Görler, T., Happel, T., Hennequin, P., Lechte, C., Manz, P., Simon, P., Biancalani, A., Blanco, E., Bottereau, C., Clairet, F., Coda, S., Eibert, T., Estrada, T., Fasoli, A., Guimarais, L., Gürcan, Ö., Huang, Z., Jenko, F., Kasperek, W., Koenen, C., Krämer-Flecken, A., Manso, M. E., Medvedeva, A., Molina, D., Nikolaeva, V., Plaum, B., Porte, L., Prisiazhniuk, D., Ribeiro, T., Scott, B. D., Siart, U., Storelli, A., Vermare, L., and Wolf, S.: Experimental turbulence studies for gyro-kinetic code validation using advanced microwave diagnostics. *Nuclear Fusion* 55, 083027 (2015).

- Sugiyama, K., Porosnicu, C., Jacob, W., Jepu, I., and Lungu, C. P.: Investigation of deuterium retention in/desorption from beryllium-containing mixed layers. *Nuclear Materials and Energy* 6, 1-9 (2016).
- Sugiyama, K., Roth, J., Alimov, V. K., Schmid, K., Balden, M., Elgeti, S., Koch, F., Höschen, T., Baldwin, M. J., Doerner, R. P., Maier, H., and Jacob, W.: Erosion study of Fe-W binary mixed layer prepared as model system of RAFM steel. *Journal of Nuclear Materials* 463, 272-275 (2015).
- Sugiyama, K., Schmid, K., and Jacob, W.: Sputtering of iron, chromium and tungsten by energetic deuterium ion bombardment. *Nuclear Materials and Energy* 8, 1-7 (2016).
- Sun, H. J., Wolfrum, E., Eich, T., Kurzan, B., Potzel, S., Stroth, U., and ASDEX Upgrade Team: Study of near scrape-off layer (SOL) temperature and density gradient lengths with Thomson scattering. *Plasma Physics and Controlled Fusion* 57, 125011 (2015).
- Suzuki, Y., and Geiger, J.: Impact of nonlinear 3D equilibrium response on edge topology and divertor heat load in Wendelstein 7-X. *Plasma Physics and Controlled Fusion* 58, 064004 (2016).
- Szepesi, T., Herrmann, A., Kocsis, G., Kovacs, A., Nemeth, J., Plöckl, B., and ASDEX Upgrade Team: Table-top pellet injector (TATOP) for impurity pellet injection. *Fusion Engineering and Design* 96-97, 707-711 (2015).
- Takahashi, H., Kubo, S., Shimozuma, T., Igami, H., Yoshimura, Y., Ito, S., Kobayasi, S., Mizuno, Y., Okada, K., Kamio, S., Mutoh, T., Osakabe, M., Nagasaki, K., Marushchenko, N. B., Turkin, Y., and LHD Experiment Group: Direct measurement of refracted trajectory of transmitting electron cyclotron beam through plasma on the Large Helical Device. *EPJ Web of Conferences* 87, 02019 (2015).
- Tamain, P., Joffrin, E., Bufferand, H., Järvinen, A., Brezinsek, S., Ciraolo, G., Delabie, E., Frassinetti, L., Giroud, C., Groth, M., Lipschultz, B., Lomas, P., Marsen, S., Menmuir, S., Oberkofler, M., Stamp, M., Wiesen, S., and JET EFDA Contributors: Investigation of the influence of divertor recycling on global plasma confinement in JET ITER-like wall. *Journal of Nuclear Materials* 463, 450-454 (2015).
- Telesca, G., Ivanova-Stanik, I., Zagorski, R., Brezinsek, S., Czarnecka, A., Drewelow, P., Giroud, C., Marsen, S., Wischmeier, M., and JET EFDA Contributors: Numerical simulations of JET discharges with the ITER-like wall for different nitrogen seeding scenarios. *Journal of Nuclear Materials* 463, 577-581 (2015).
- Terry, P. W., Carmody, D., Doerk, H., Guttenfelder, W., Hatch, D. R., Hegna, C. C., Ishizawa, A., Jenko, F., Nevins, W. M., and Predebon, I.: Overview of gyrokinetic studies of finite- β microturbulence. *Nuclear Fusion* 55, 104011 (2015).
- Teschke, M., Arden, N., Eixenberger, H., Rott, M., Suttrop, W., and ASDEX Upgrade Team: Electrical Design of the BUSSARD Inverter System for ASDEX Upgrade Saddle Coils. *Fusion Engineering and Design* 96-97, 171-176 (2015).
- Thomsen, H., Langenberg, A., Zhang, D., Bertschinger, G., Biedermann, C., Biel, W., Burhenn, R., Buttenschön, B., Grosser, K., König, R., Kubkowska, M., Marchuk, O., Pablant, N., Ryc, L., Pedersen, T. S., and W7-X Team: Startup impurity diagnostics in Wendelstein 7-X stellarator in the first operational phase. *Journal of Instrumentation* 10, P10015 (2015).
- Titus, P. H., Zhang, H., Lumsdaine, A., McGinnis, W. D., Lore, J., Neilson, H., Brown, T., Boscary, J., Peacock, A., and Fellinger, J.: Analysis of the Wendelstein 7-X test divertor unit scraper element with radiation shields. *Fusion Science and Technology* 68, 272-276 (2015).
- Toigo, V., Boilson, D., Bonicelli, T., Piovan, R., Hanada, M., Chakraborty, A., Agarici, G., Antoni, V., Baruah, U., Bigi, M., Chitarin, G., Dal Bello, S., Decamps, H., Graceffa, J., Kashiwagi, M., Hemsworth, R., Luchetta, A., Marcuzzi, D., Masiello, A., Paolucci, F., Pasqualotto, R., Patel, H., Pomarao, N., Rotti, C., Serianni, G., Simon, M., Singh, M., Singh, N. P., Svensson, L., Tobari, H., Watanabe, K., Zaccaria, P., Agostinetti, P., Agostini, M., Andreani, R., Aprile, D., Badyopadhyay, M., Barbisan, M., Battistella, M., Bettini, P., Blachford, P., Boldrin, M., Bonomo, F., Bragulat, E., Brombin, M., Cavenago, M., Chuiilon, B., Coniglio, A., Croci, G., Dalla Palma, M., D'Arienzo, M., Dave, R., De Esch, H. P. L., De Lorenzi, A., De Muri, M., Delogu, R., Dhola, H., Fantz, U., Fellin, F., Fellin, L., Ferro, A., Fiorentin, A., Fonnesu, N., Franzen, P., Fröschle, M., Gaio, E., Gambetta, G., Gomez, G., Gnesotto, F., Gorini, G., Grando, L., Gupta, V., Gutierrez, D., Hanke, S., Hardie, C., Heinemann, B., Kojima, A., Kraus, W., Maeshima, T., Maistrello, A., Manduchi, G., Marconato, N., Mico, G., Moresco, M., Muraro, A., Muvvala, V., Nocentini, R., Ocello, E., Ochoa, S., Parmar, D., Patel, A., Pavei, M., Peruzzo, S., Pilan, N., Pilard, V., Recchia, P., Riedl, R., Rizzolo, A., Roopesh, G., Rostagni, G., Sandri, S., Sartori, E., Recchia, P., Riedl, R., Rizzolo, A., Roopesh, G., Rostagni, G., Sandri, S., Sartori, E., Sonato, P., Sottocornola, A., Spagnolo, S., Spolaore, M., Taliercio, C., Tardocchi, M., Thakkar, A., Umeda, N., Valente, M., Veltri, P., Yadav, A., Yamanaka, H., Zamengo, A., Zaniol, B., Zanotto, L., and Zaupa, M.: Progress in the realization of the PRIMA neutral beam test facility. *Nuclear Fusion* 55, 083025 (2015).

Told, D., Cookmeyer, J., Astfalk, P., and Jenko, F.: A linear dispersion relation for the hybrid kinetic-ion/fluid-electron model of plasma physics. *New Journal of Physics* 18, 075001 (2016).

Told, D., Cookmeyer, J., Müller F., F., Astfalk, P., and Jenko, F.: Comparative study of gyrokinetic, hybrid-kinetic and fully kinetic wave physics for space plasmas. *New Journal of Physics* 18, 065011 (2016).

Told, D., Jenko, F., TenBarge, J. M., Howes, G. G., and Hammett, G. W.: Multiscale Nature of the Dissipation Range in Gyrokinetic Simulations of Alfvénic Turbulence. *Physical Review Letters* 115, 025003 (2015).

Toussaint, U. von: General Hyperplane Prior Distributions Based on Geometric Invariances for Bayesian Multivariate Linear Regression. *Entropy* 17, 3898-3912 (2015).

Toussaint, U. von: Robust phase estimation for signals with a low signal-to-noise-ratio. *AIP Conference Proceedings* 1641, 246 (2015).

Toussaint, U. von, Mutzke, A., Sugiyama, K., and Schwarz-Selinger, T.: Simulation of coupled sputter-diffusion effects. *Physica Scripta* T167, 014023 (2016).

Toussaint, U. von, Schwarz-Selinger, T., and Schmid, K.: First-passage kinetic Monte Carlo on lattices: Hydrogen transport in lattices with traps. *Journal of Nuclear Materials* 463, 1075-1079 (2015).

Treutterer, W., Cole, R., Gräter, A., Lüdecke, K., Neu, G., Rapson, C., Raupp, G., Zasche, D., Zehetbauer, T., and ASDEX Upgrade Team: Transforming the ASDEX Upgrade discharge control system to a general-purpose plasma control platform. *Fusion Engineering and Design* 96-97, 712-715 (2015).

Tronko, N., and Brizard, A. J.: Lagrangian and Hamiltonian constraints for guiding-center Hamiltonian theories. *Physics of Plasmas* 22, 112507 (2016).

Tronko, N., Bottino, A., and Sonnendrücker, E.: Second order gyrokinetic theory for particle-in-cell codes. *Physics of Plasmas* 23, 082505 (2016).

Tsumori, K., Ikeda, K., Nakano, H., Kisaki, M., Geng, S., Wada, M., Sasaki, K., Nishiyama, S., Goto, M., Serianni, G., Agostinetti, P., Sartori, E., Brombin, M., Veltri, P., Wimmer, C., Nagaoka, K., Osakabe, M., Takeiri, Y., and Kaneko, O.: Negative ion production and beam extraction processes in a large ion source (invited). *Review of Scientific Instruments* 87, 02B936 (2016).

Turnyanskiy, M., Neu, R., Albanese, R., Ambrosino, R., Bachmann, C., Brezinsek, S., Donne, T., Eich, T., Falchetto, G., Federici, G., Kalupin, D., Litaudon, X., Mayoral, M. L., McDonald, D. C., Reimerdes, H., Romanelli, F., Wenninger, R., and You, J.-H.: European roadmap to the realization of fusion energy: Mission for solution on heat-exhaust systems. *Fusion Engineering and Design* 96-97, 361-364 (2015).

Uytdenhouwen, I., Schwarz-Selinger, T., Coenen, J. W., and Wirtz, M.: Mechanical and microstructural changes in tungsten due to irradiation damage. *Physica Scripta* T167, 014007 (2016).

Valovic, M., Lang, P. T., Kirk, A., Suttrop, W., Cavedon, M., Cseh, G., Dunne, M., Fischer, R., Garzotti, L., Guimarais, L., Kocsis, G., Mlynek, A., Plöckl, B., Scannell, R., Szepesi, T., Tardini, G., Thornton, A., Viezzzer, E., Wolfrum, E., ASDEX Upgrade Team, and EUROfusion MST1 Team: Pellet refuelling of particle loss due to ELM mitigation with RMPs in the ASDEX Upgrade tokamak at low collisionality. *Nuclear Fusion* 56, 066009 (2016).

Van Zeeland, M. A., Ferraro, N. M., Grierson, B. A., Heidbrink, W. W., Kramer, G. J., Lasnier, C. J., Pace, D. C., Allen, S. L., Chen, X., Evans, T. E., Garcia-Munoz, M., Hanson, J., Lanctot, M. J., Lao, L., Meyer, W. H., Moyer, R., Nazikian, R., Orlov, D. M., Paz-Soldan, C., and Wingen, A.: Fast ion transport during applied 3D magnetic perturbations on DIII-D. *Nuclear Fusion* 55, 073028 (2015).

Van Zeeland, M. A., Heidbrink, W. W., Sharapov, S. E., Spong, D., Cappa, A., Chen, X., Collins, C., Garcia-Munoz, M., Gorelenkov, N. N., Kramer, G. J., Lauber, P., Lin, Z., and Petty, C.: Electron cyclotron heating can drastically alter reversed shear Alfvén eigenmode activity in DIII-D through finite pressure effects. *Nuclear Fusion* 56, 112007 (2016).

Varje, J., Asunta, O., Cavinato, M., Gagliardi, M., Hirvijoki, E., Koskela, T., Kurki-Suonio, T., Liu, Y., Parail, V., Saibene, G., Sipilä, S., Snicker, A., Särkimäki, K., and Äkäslompolo, S.: Effect of plasma response on the fast ion losses due to ELM control coils in ITER. *Nuclear Fusion* 56, 046014 (2016).

Velasco, J. L., McCarthy, K. J., Panadero, N., Satake, S., López-Bruna, D., Alonso, A., Calvo, I., Dinklage, A., Estrada, T., Fontdecaba, J. M., Hernández, J., García, R., Medina, F., Ochando, M., Pastor, I., Perfilov, S., Sánchez, E., Soleto, A., Van Milligen, B. P., Zhezhera, A., and TJ-II Team: Particle transport after pellet injection in the TJ-II stellarator. *Plasma Physics and Controlled Fusion* 58, 084004 (2016).

Verdoolaege, G., and Noterdaeme, J.-M.: Robust scaling in fusion science: case study for the L-H power threshold. *Nuclear Fusion* 55, 113019 (2015).

Vezinet, D., Igochine, V., Weiland, M., Yu, Q., Gude, A., Meshcheriakov, D., Sertoli, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Non-monotonic growth rates of sawtooth precursors evidenced with a new method on ASDEX Upgrade. Nuclear Fusion 56, 086001 (2016).

Viezzer, E., Dux, R., Dunne, M. G., and ASDEX Upgrade Team: A new beam emission polarimetry diagnostic for measuring the magnetic field line angle at the plasma edge of ASDEX Upgrade. Review of Scientific Instruments 87, 11E528 (2016).

Viezzer, E., Fable, E., Pütterich, T., Bergmann, A., Cavedon, M., Dux, R., McDermott, R., Angioni, C., Churchill, R. M., Dunne, M., Laggner, F. M., Lipschultz, B., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Collisionality dependence of edge rotation and ion-out impurity asymmetries in ASDEX Upgrade H-mode plasmas. Nuclear Fusion 55, 123002 (2015).

Vilbrandt, R., Bosch, H.-S., Feist, J.-H., and Klinger, T.: Continuity and enhancement of quality management during commissioning of W7-X. Fusion Engineering and Design 96-97, 373-377 (2015).

Vincenzi, P., Koechl, F., Garzotti, L., King, D. B., Tindale, E., Bolzonella, T., Lang, P. T., Pegourié, B., Romanelli, M., and Wenninger, R.: Fuelling and density control for DEMO. Nuclear Fusion 55, 113028 (2015).

Vlainic, M., Mlynar, J., Cavalier, J., Weinzettl, V., Paproka, R., Imriseka, M., Fickera, O., Varavin, M., Vondracek, P., Noterdaeme, J.-M., and COMPASS Team: Post-disruptive runaway electron beams in the COMPASS tokamak. Journal of Plasma Physics 81, 475810506 (2015).

Voitsenya, V. S., Bardamid, A. F., Balden, M., Gostin, F., Khovrich, S. V., Konovalov, V. G., Kovtun, K. V., Lytvyn, P. M., Ketov, S. V., Luzguine-Luzgin, D. V., Solodovchenko, S. I., Shapoval, A. N., Shtan', A. F., Bondarenko, V. N., Ruzhkov, I. V., Skoryk, O. O., and Vasil'ev, A. A.: On the Prospects of Using Metallic Glasses for In-vessel Mirrors for Plasma Diagnostics in ITER research-article. Metallic Glasses – Formation and Properties. (Ed.) B. Movahedi, InTech, Rijeka, 135-167 (2016).

Vries, P. C. de, Pautasso, G., Humphreys, D., Lehnen, M., Maruyama, S., Snipes, J. A., Vergara, A., and Zabeo, L.: Requirements for Triggering the ITER Disruption Mitigation System. Fusion Science and Technology 69, 471-484 (2016).

Vries, P. C. de, Pautasso, G., Nardon, E., Cahyna, P., Gerasimov, S., Havlicek, J., Hender, T. C., Huijsmans, G. T. A., Lehnen, M., Maraschek, M., Marković, T., Snipes, J. A.,

COMPASS Team, ASDEX Upgrade Team, and JET Contributors: Scaling of the MHD perturbation amplitude required to trigger a disruption and predictions for ITER. Nuclear Fusion 56, 026007 (2016).

Vulliez, K., Chen, Z., Ferlay, F., Winkler, K., Helou, W., Hillairet, J., Mollard, P., Patterlini, J. C., Bernard, J. M., Delaplanche, J. M., Lombard, G., Prou, M., and Volpe, R.: The mechanical structure of the WEST Ion Cyclotron Resonant Heating launchers. Fusion Engineering and Design 96-97, 611-615 (2015).

Wade, M. R., Nazikian, R., deGrassie, J. S., Evans, T. E., Ferraro, N. M., Moyer, R. A., Orlov, D. M., Buttery, R. J., Fenstermacher, M. E., Garofalo, A. M., Lanctot, M. A., McKee, G. R., Osborne, T. H., Shafer, M. A., Solomon, W. M., Snyder, P. B., Suttrop, W., Wingen, A., Unterberg, E. A., and Zeng, L.: Advances in the physics understanding of ELM suppression using resonant magnetic perturbations in DIII-D. Nuclear Fusion 55, 023002 (2015).

Wagner, D., Bongers, W., Kasparek, W., Leuterer, F., Monaco, F., Münich, M., Schütz, H., Stober, J., Thumm, M., and Brand, H. v. d.: A Multifrequency Notch Filter for Millimeter Wave Plasma Diagnostics based on Photonic Bandgaps in Corrugated Circular Waveguides. EPJ Web of Conferences 87, 04012 (2015).

Wagner, D., Stober, J., Leuterer, F., Monaco, F., Müller, S., Münich, M., Rapson, C. J., Reich, M., Schubert, M., Schütz, H., Treutterer, W., Zohm, H., Thumm, M., Scherer, T., Meier, A., Gantenbein, G., Jelonnek, J., Kasparek, W., Lechte, C., Plaum, B., Goodman, T., Litvak, A. G., Denisov, G. G., Chirkov, A., Zapevalov, V., Malygin, V., Popov, L. G., Nichiporenko, V. O., Myasnichenko, V. E., Tai, E. M., Solyanova, E. A., Malygin, S. A., and ASDEX Upgrade Team: Status, Operation, and Extension of the ECRH System at ASDEX Upgrade. Journal of Infrared, Millimeter, and Terahertz Waves 37, 45-54 (2016).

Wagner, F., and Rachlew, E.: Study on a hypothetical replacement of nuclear electricity by wind power in Sweden. The European Physical Journal Plus 131, 173 (2016).

Wagner, F., and Wertz, F.: Characteristics of electricity generation with intermittent sources depending on the time resolution of the input data. The European Physical Journal Plus 131, 284 (2016).

Walker, M. L., Ambrosino, G., De Tommasi, G., Humphreys, D. A., Mattei, M., Neu, G., Rapson, C. J., Raupp, G., Treutterer, W., Welander, A. S., and Winter, A.: The ITER Plasma Control System Simulation Platform. Fusion Engineering and Design 96-97, 716-719 (2015).

- Wang, P., Jacob, W., and Elgeti, S.: Deuterium retention in tungsten films after different heat treatments. *Journal of Nuclear Materials* 456, 192-199 (2015).
- Wang, X., and Briguglio, S.: Saturation of single toroidal number Alfvén modes. *New Journal of Physics* 18, 085009 (2016).
- Wang, X., Briguglio, S., Lauber, P., Fusco, V., and Zonca, F.: Structure of wave-particle resonances and Alfvén mode saturation. *Physics of Plasmas* 23, 012514 (2016).
- Wang, X., Zhang, X., Yu, Q., Wu, B., Zhu, S., Wang, J., Zhang, Y., and Wang, X.: Utilizing resonant magnetic perturbations to enhance neoclassical tearing mode stabilization by rf current. *Nuclear Fusion* 55, 093024 (2015).
- Warmer, F., Beidler, C. D., and Wolf, R. C.: Stellarator fusion power plants. *Magnetic Fusion Energy: From Experiments to Power Plants*, (Ed.) G. H. Neilson. Elsevier Science, Amsterdam, 577-598 (2016).
- Warmer, F., Beidler, C. D., Dinklage, A., Egorov, K., Feng, Y., Geiger, J., Kemp, R., Knight, P., Schauer, F., Turkin, Y., Ward, D., Wolf, R. C., and Xanthopoulos, P.: Implementation and verification of a HELIAS module for the systems code PROCESS. *Fusion Engineering and Design* 98-99, 2227-2230 (2015).
- Warmer, F., Beidler, C. D., Dinklage, A., Egorov, K., Feng, Y., Geiger, J., Schauer, F., Turkin, Y., Wolf, R. C., and Xanthopoulos, P.: HELIAS module development for systems codes. *Fusion Engineering and Design* 91, 60-66 (2015).
- Warmer, F., Beidler, C. D., Dinklage, A., Turkin, Y., and Wolf, R.: Limits of Confinement Enhancement for Stellarators. *Fusion Science and Technology* 68, 727-740 (2015).
- Warmer, F., Beidler, C. D., Dinklage, A., Wolf, R. C., and W7-X Team: From W7-X to a HELIAS fusion power plant: motivation and options for an intermediate-step burning-plasma stellarator. *Plasma Physics and Controlled Fusion* 58, 074006 (2016).
- Warmer, F., Torrisi, S. B., Beidler, C. D., Dinklage, A., Feng, Y., Geiger, J., Schauer, F., Turkin, Y., Wolf, R., Xanthopoulos, P., Kemp, R., Knight, P., Lux, H., and Ward, D.: System Code Analysis of HELIAS-Type Fusion Reactor and Economic Comparison with Tokamaks. *IEEE Transactions on Plasma Science* 44, 1576-1585 (2016).
- Warrier, M., Bhardwaj, U., Hemani, H., Schneider, R., Mutzke, A., and Valsakumar, M. C.: Statistical study of defects caused by primary knock-on atoms in fcc Cu and bcc W using molecular dynamics. *Journal of Nuclear Materials* 467, Part 1, 457-464 (2015).
- Wauters, T., Douai, D., Kogut, D., Lyssoivan, A., Brezinsek, S., Belonohy, E., Blackman, T., Bobkov, V., Cromb  , K., Drenik, A., Graham, M., Joffrin, E., Lerche, E., Loarer, T., Lomas, P. L., Mayoral, M.-L., Monakhov, I., Oberkofler, M., Philippss, V., Plyusnin, V., Sergienko, G., Van Eester, D., and JET EFDA Contributors: Isotope Exchange by Ion Cyclotron Wall Conditioning on JET. *Journal of Nuclear Materials* 463, 1104-1108 (2015).
- Weber, H., Maj, O., and Poli, E.: Scattering of diffracting beams of electron cyclotron waves by random density fluctuations in inhomogeneous plasmas. *EPJ Web of Conferences* 87, 01002 (2015).
- Weidl, M., Jenko, F., Teaca, B., and Schlickeiser, R.: Cosmic-ray pitch-angle scattering in imbalanced MHD turbulence simulations. *The Astrophysical Journal* 811, 8 (2015).
- Weiland, M., Geiger, B., Jacobsen, A. S., Reich, M., Salewski, M., Odstrcil, T., and ASDEX Upgrade Team: Enhancement of the FIDA diagnostic at ASDEX Upgrade for velocity space tomography. *Plasma Physics and Controlled Fusion* 58, 025012 (2016).
- Weiland, M., Gude, A., Igochine, V., Maraschek, M., Zohm, H., Bohle, R., Dux, R., Lackner, K., Odstrcil, T., P  tterich, T., and ASDEX Upgrade Team: Investigation of 3D tungsten distributions in (1,1) kink modes induced by toroidal plasma rotation. *Plasma Physics and Controlled Fusion* 57, 085002 (2015).
- Weinzettl, V., Shukla, G., Ghosh, J., Melich, R., Panek, R., Tomes, M., Imrisek, M., Naydenkova, D., Varju, J., Pereira, T., Gomes, R., Abramovic, I., Jaspers, R., Pisarik, M., Odstrcil, T., and Van Oost, G.: High-resolution spectroscopy diagnostics for measuring impurity ion temperature and velocity on the COMPASS tokamak. *Fusion Engineering and Design* 96-97, 1006-1011 (2015).
- Weir, G. M., Likin, K. M., Marushchenko, N. B., and Turkin, Y.: Ray tracing and ECRH absorption modeling in the HSX stellarator. *Nuclear Fusion* 55, 113011 (2015).
- Wenninger, R., Arbeiter, F., Aubert, J., Aho-Mantila, L., Albanese, R., Ambrosino, R., Angioni, C., Artaud, J.-F., Bernert, M., Fable, E., Fasoli, G., Federici, G., Garcia, J., Giruzzi, G., Jenko, F., Maget, P., Mattei, M., Maviglia, F., Poli, E., Ramogida, G., Reux, C., Schneider, M., Sieglin, B., Villone, F., Wischmeier, M., and Zohm, H.: Advances in the physics basis for the European DEMO design. *Nuclear Fusion* 55, 063003 (2015).

- Wenzel, U., and Goto, M.: H _{α} diagnostic in a recombining plasma. *Plasma Physics and Controlled Fusion* 58, 055006 (2016).
- Wenzel, U., Koenig, R., Pedersen, T. S., and W7-AS Team: A helical hydrogen-MARFE-like phenomenon in the divertor of the Wendelstein 7-AS stellarator. *Nuclear Fusion* 55, 013017 (2015).
- Widdowson, A., Baron-Wiechec, A., Batistoni, P., Belonohy, E., Coad, J. P., Dinca, P., Flammini, D., Fox, F., Heinola, K., Jepu, I., Likonen, J., Lilley, S., Lungu, C. P., Matthews, G. F., Naish, J., Pompilian, O., Porosnicu, C., Rubel, M., Villari, R., and JET Contributors: Experience of handling beryllium, tritium and activated components from JET ITER like wall. *Physica Scripta* T167, 014057 (2016).
- Wielunsko, B., Mayer, M., Schwarz-Selinger, T., Toussaint, U. von, and Bauer, J.: Cross section data for the D(³He,p)⁴He nuclear reaction from 0.25 to 6 MeV. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 371, 41-45 (2016).
- Wiesen, S., Groth, M., Brezinsek, S., Wischmeier, M., and JET Contributors: Modelling of plasma-edge and plasma-wall interaction physics at JET with the metallic first-wall. *Physica Scripta* T167, 014078 (2016).
- Willensdorfer, M., Denk, S. S., Strumberger, E., Sutrop, W., Vanovac, B., Brida, D., Cavedon, M., Classen, I., Dunne, M., Fietz, S., Fischer, R., Kirk, A., Laggner, F. M., Liu, Y. Q., Odstrcil, T., Ryan, D. A., Viezz, E., Zohm, H., Luhmann, I. C., ASDEX Upgrade Team, and EUROfusion MST1 Team: Plasma response measurements of external magnetic perturbations using electron cyclotron emission and comparisons to 3D ideal MHD equilibrium. *Plasma Physics and Controlled Fusion* 58, 114004 (2016).
- Willensdorfer, M., Fable, E., Wolfrum, E., Aumayr, F., Fischer, R., Reimold, F., Ryter, F., and ASDEX Upgrade Team: Role of electron temperature in the particle transport in the pedestal during pedestal evolution. *Journal of Nuclear Materials* 463, 1091-1095 (2015).
- Wimmer, C., Fantz, U., and NNBI Team: Extraction of negative charges from an ion source: Transition from an electron repelling to an electron attracting plasma close to the extraction surface. *Journal of Applied Physics* 120, 073301 (2016).
- Wimmer, C., Schiesko, L., and Fantz, U.: Investigation of the boundary layer during the transition from volume to surface dominated H⁺ production at the BATMAN test facility. *Review of Scientific Instruments* 87, 02B310 (2016).
- Winter, A., Ambrosino, G., Bauvir, B., De Tommasi, G., Humphreys, D. A., Mattei, M., Neto, A., Raupp, G., Snipes, J. A., Stephen, A. V., Treutterer, W., Walker, M. L., and Zabeo, L.: Implementation strategy for the ITER plasma control system. *Fusion Engineering and Design* 96-97, 720-723 (2015).
- Wischmeier, M., ASDEX Upgrade Team, and JET EFDA Contributors: High density operation for reactor-relevant power exhaust. *Journal of Nuclear Materials* 463, 22-29 (2015).
- Wolf, R. C., Beidler, C. D., Dinklage, A., Helander, P., Laqua, H. P., Schauer, F., Pedersen, T. S., Warmer, F., and W7-X Team: Wendelstein 7-X Program – Demonstration of a Stellarator Option for Fusion Energy. *IEEE Transactions on Plasma Science* 44, 1466-1471 (2016).
- Wolf, R. C., Bock, A., Ford, O. P., Reimer, R., Burckhart, A., Dinklage, A., Hobirk, J., Howard, J., Reich, M., and Stober, J.: Motional Stark Effect measurements of the local magnetic field in high temperature fusion plasmas. *Journal of Instrumentation* 10, P10008 (2015).
- Wolfrum, E., Viezz, E., Burckhart, A., Dunne, M. G., Schneider, P. A., Willensdorfer, M., Fable, E., Fischer, R., Hatch, D., Jenko, F., Kurzan, B., Manz, P., and Rathgeber, S. K.: Overview of Recent Pedestal Studies at ASDEX Upgrade. *Nuclear Fusion* 55, 053017 (2015).
- Wunderlich, D., and Fantz, U.: Evaluation of State-Resolved Reaction Probabilities and Their Application in Population Models for He, H, and H₂. *Atoms* 4, 26 (2016).
- Wunderlich, D., Fantz, U., Heinemann, B., Kraus, W., Riedl, R., Wimmer, C., and NNBI Team: Progress of the ELISE test facility: towards one hour pulses in hydrogen. *Nuclear Fusion* 56, 106004 (2016).
- Wunderlich, D., Wimmer, C., and Friedl, R.: A collisional radiative model for caesium and its application to an RF source for negative hydrogen ions. *AIP Conference Proceedings* 1655, 020006 (2015).
- Wurden, G. A., Stephey, L. A., Biedermann, C., Jakubowski, M. W., Dunn, J. P., Gamradt, M., and W7-X Team: A high resolution IR/visible imaging system for the W7-X limiter. *Review of Scientific Instruments* 87, 11D607 (2016).
- Xanthopoulos, P., Plunk, G. G., Zocco, A., and Helander, P.: Intrinsic Turbulence Stabilization in a Stellarator. *Physical Review X* 6, 021033 (2016).
- Yamoto, S., Homma, Y., Hoshino, K., Sawada, Y., Bonnin, X., Coster, D., Schneider, R., and Hatayama, A.: Effects of

background plasma characteristics on tungsten impurity transport in the SOL/divertor region using IMPGYRO code. *Journal of Nuclear Materials* 463, 615-619 (2015).

Yashin, A. Y., Bulanin, V. V., Petrov, A. V., Petrov, M. A., Gusev, V. K., Khromov, N. A., Kurskiev, G. S., Patrov, M. I., Petrov, Y. V., Tolstyakov, S. Y., and Prisyazhnyuk, D. V.: Multi-diagnostic approach to geodesic acoustic mode study. *Journal of Instrumentation* 10, P10023 (2015).

You, J. H.: A review on two previous divertor target concepts for DEMO: mutual impact between structural design requirements and materials performance. *Nuclear Fusion* 55, 113026 (2015).

You, J. H., Mazzone, G., Visca, E., Bachmann, C., Autissier, E., Barrett, T., Cocilovo, V., Crescenzi, F., Domalapally, P. K., Dongiovanni, D., Entler, S., Federici, G., Frosi, P., Fursdon, M., Greuner, H., Hancock, D., Marzullo, D., McIntosh, S., Müller, A. V., Porfiri, M. T., Ramogida, G., Reiser, J., Richou, M., Rieth, M., Rydz, A., Villari, R., and Widak, V.: Conceptual design studies for the European DEMO divertor: Rationale and first results. *Fusion Engineering and Design* 109-111, Pt. B, 1598-1603 (2016).

Yu, J. H., Baldwin, M. J., Doerner, R. P., Dittmar, T., Hakola, A., Höschen, T., Likonen, J., Nishijima, D., and Toudehki, H. H.: Transient heating effects on tungsten: Ablation of Be layers and enhanced fuzz growth. *Journal of Nuclear Materials* 463, 299-302 (2015).

Yu, Q., Günter, S., and Lackner, K.: Numerical modelling of sawtooth crash using two-fluid equations. *Nuclear Fusion* 55, 113008 (2015).

Zagorski, R., Voitsekhovitch, I., Ivanova-Stanik, I., Köchl, F., Belo, P., Fable, E., Garcia, J., Garzotti, L., Hobirk, J., Hogeweij, G. M. D., Joffrin, E., Litaudon, X., Polevoi, A. R., Telesca, G., and JET Contributors: Integrated core-SOL-divertor modelling for ITER including impurity: effect of tungsten on fusion performance in H-mode and hybrid scenario. *Nuclear Fusion* 55, 053032 (2015).

Zakharov, L. E., Atanasiu, C. V., Lackner, K., Hoelzl, M., and Strumberger, E.: Electromagnetic thin-wall model for simulations of plasma wall-touching kink and vertical modes. *Journal of Plasma Physics* 81, 515810610 (2015).

Založnik, A., Markelj, S., Schwarz-Selinger, T., Ciupinski, L., Grzonka, J., Vavpetić, P., and Pelicon, P.: The influence of the annealing temperature on deuterium retention in self-damaged tungsten. *Physica Scripta* T167, 014031 (2016).

Zammuto, I., Giannone, L., Houben, A., Herrmann, A., Kallenbach, A., and ASDEX Upgrade Team: Long term Project in ASDEX Upgrade: implementation of ferritic steel as in vessel wall. *Fusion Engineering and Design* 98-99, 1419-1422 (2015).

Zarzoso, D., Casson, F., Hornsby, W. A., Poli, E., and Peeters, A. G.: Verification of a magnetic island in gyrokinetics by comparison with analytic theory. *Physics of Plasmas* 22, 022127 (2015).

Zarzoso, D., Hornsby, W. A., Poli, E., Casson, F. J., Peeters, A. G., and Nasr, S.: Impact of rotating magnetic islands on density profile flattening and turbulent transport. *Nuclear Fusion* 55, 113018 (2015).

Zayachuk, Y., Manhard, A., 't Hoen, M. H. J., Jacob, W., Zeijlmans van Emmichoven, P. A., and van Oost, G.: The effect of ion flux on plasma-induced modification and deuterium retention in tungsten and tungsten-tantalum alloys. *Journal of Nuclear Materials* 464, 69-72 (2015).

Zhang, W., Bobkov, V., Lunt, T., Noterdaeme, J.-M., Coster, D., Bilato, R., Jacquet, P., Brida, D., Feng, Y., Wolfrum, E., Guimarais, L., and ASDEX Upgrade Team: 3D simulations of gas puff effects on edge density and ICRF coupling in ASDEX Upgrade. *Nuclear Fusion* 56, 036007 (2016).

Zhang, W., Feng, Y., Noterdaeme, J.-M., Bobkov, V., Colas, L., Coster, D., Lunt, T., Bilato, R., Jacquot, J., Ochoukov, R., Van Eester, D., Krivska, A., Jacquet, P., Guimarais, L., and ASDEX Upgrade Team: Modelling of the ICRF induced $E \times B$ convection in the scrape-off-layer of ASDEX Upgrade. *Plasma Physics and Controlled Fusion* 58, 095005 (2016).

Zhang, W., Lunt, T., Bobkov, V., Noterdaeme, J.-M., Coster, D., Jacquet, P., Brida, D., Feng, Y., and ASDEX Upgrade Team: Simulations of gas puff effects on edge density and ICRF coupling in ASDEX upgrade using EMC3-Eirene. *AIP Conference Proceedings* 1689, 050006 (2015).

Zhu, J., Gao, J., Ehn, A., Aldén, M., Li, Z., Moseev, D., Kusano, Y., Salewski, M., Alpers, A., Gritzmann, P., and Schwenk, M.: Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. *Applied Physics Letters* 106, 044101 (2015).

Zibrov, M., Mayer, M., Gao, L., Elgeti, S., Kurishita, H., Gasparyan, Y., and Pisarev, A.: Deuterium retention in TiC and TaC doped tungsten at high temperatures. *Journal of Nuclear Materials* 463, 1045-1048 (2015).

Zibrov, M., Ryabtsev, S., Gasparyan, Y., and Pisarev, A.: Experimental determination of the deuterium binding energy

with vacancies in tungsten. *Journal of Nuclear Materials* 477, 292-297 (2016).

Zivelonghi, A., Weitkamp, T., and Larrue, A.: Open porosity and 3D pore architecture in plasma-sprayed tungsten. *Scripta Materialia* 115, 66-70 (2016).

Zocco, A.: Linear collisionless Landau damping in Hilbert space. *Journal of Plasma Physics* 81, 905810402 (2015).

Zocco, A., Helander, P., and Connor, J. W.: Magnetic compressibility and ion-temperature-gradient-driven microinstabilities in magnetically confined plasmas. *Plasma Physics and Controlled Fusion* 57, 085003 (2015).

Zocco, A., Loureiro, N. F., Dickinson, D., Numata, R., and Roach, C. M.: Kinetic microtearing modes and reconnecting modes in strongly magnetised slab plasmas. *Plasma Physics and Controlled Fusion* 57, 065008 (2015).

Zocco, A., Plunk, G. G., Xanthopoulos, P., and Helander, P.: Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. I. Nearly axisymmetric systems. *Physics of Plasmas* 23, 082516 (2016).

Zohm, H.: Introduction to Tokamak Operational Scenarios. In: *Active Control of Magneto-hydrodynamic Instabilities in Hot Plasmas*, (Ed.) V. Igochine. Springer Series on Atomic, Optical, and Plasma Physics 83. Springer, Berlin, Heidelberg, 1-7 (2015).

Zohm, H.: Plasma performance, burn and sustainment. *Magnetic Fusion Energy: From Experiments to Power Plants*, (Ed.) G. H. Neilson. Elsevier Science, Amsterdam, 7-30 (2016).

Zohm, H., Ambrosy, G., and Lackner, K.: Electrical potential difference during laser welding. *Journal of Plasma Physics* 81, 905810109 (2015).

Zohm, H., ASDEX Upgrade Team, and EUROfusion MST1 Team: Recent ASDEX Upgrade research in support of ITER and DEMO. *Nuclear Fusion* 55, 104010 (2015).

Zonca, F., Chen, L., Briguglio, S., Fogaccia, G., Milovanov, A. V., Qiu, Z., Vlad, G., and Wang, X.: Energetic particles and multi-scale dynamics in fusion plasmas. *Plasma Physics and Controlled Fusion* 57, 014024 (2015).

Zonca, F., Chen, L., Briguglio, S., Fogaccia, G., Vlad, G., and Wang, X.: Nonlinear dynamics of phase space zonal structures and energetic particle physics in fusion plasmas. *New Journal of Physics* 17, 013052 (2015).

Conference Papers

Ahn, J.-H., Garbet, X., Guirlet, R., Février, O., Lütjens, H., Sertoli, M., ASDEX Upgrade Team, and and EUROfusion MST1 Team: MHD simulations of impurity transport during sawteeth for ASDEX-Upgrade plasmas. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.103 (2015).

Äkäslompolo, S., Bonheure, G., Tardini, G., Kurki-Suonio, T., and ASDEX Upgrade Team: Adjoint Monte Carlo Simulation of Fusion Product Activation Probe Experiment in ASDEX Upgrade Tokamak. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 055 (2015).

Aledda, R., Cannas, B., Fanni, A., Murari, A., Pau, A., Sias, G., ASDEX Upgrade Team, JET Contributors, and EUROfusion MST1 Team: A comparative multivariate analysis of disruption classes between JET and AUG. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.137 (2015).

Aleynikov, P., and Breizman, B. N.: Relativistic runaway electrons in a near-threshold electric field. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.176 (2015).

Aleynikova, K., Huijsmans, G. T. A., and Aleynikov, P.: Linear ideal and resistive MHD stability analysis of post-disruption plasmas with runaway electrons in ITER. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.129 (2015).

Andreeva, T., Brakel, R., Kißlinger, J., and Köppen, M.: Estimation of Wendelstein 7-X magnetic field perturbation due to permeable materials. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.162 (2015).

Asunta, O., Coelho, R., Kalupin, D., Johnson, T., and Franke, T.: Predictions of neutral beam current drive in DEMO using BBNBI and ASCOT within the European Transport Simulator. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.156 (2015).

Baldzuhn, J., Ford, O., Richert, T., and W7-X Team: Planned Active Spectroscopy in the Neutral Beam Injectors of W7-X. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 109 (2015).

Bergmann, A.: Effect of islands and rotation on neoclassical tungsten impurity transport. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.042 (2016).

Bernert, M., Reimold, F., Dux, R., Eich, T., Glöggler, S., Kallenbach, A., Lipschultz, B., Wischmeier, M., EUROfusion MST1 Team, and ASDEX Upgrade Team: High radiation scenarios with radiation inside the confined region at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.135 (2015).

Beurskens, M. N. A., Dunne, M. G., Frassinetti, L., Bernert, M., Cavedon, M., Fischer, R., Järvinen, A., Kallenbach, A., Laggner, F. M., McDermott, R., Tardini, G., Viezz, E., Wolfrum, E., ASDEX Upgrade Team and EUROfusion MST1 Team: The role of carbon on the H mode confinement in ASDEX Upgrade with a metal wall. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.102 (2015).

Bilato, R., Belmondo, V., Brambilla, M., Maj, O., and Poli, E.: Progress on the ICRF orbit-averaged quasilinear operator of TORIC full-wave code. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.045 (2016).

Bingham, R., Suttrop, W., Atzeni, S., Foest, R., McClements, K., Gonçalves, B., Silva, C., and Coelho, R. (Eds.): 42nd EPS Conference on Plasma Physics, Lisbon, 2015-06-22 to 2015-06-26. Europhysics Conference Abstracts ECA 39E European Physical Society, Geneva (2015).

Birkenmeier, G., Cavedon, M., Conway, G. D., Manz, P., Fuchert, G., Laggner, F., Happel, T., Medvedeva, A., Nikolaeva, V., Prisyazhnyuk, D. V., Shao, L., Maraschek, M., Pütterich, T., Ryter, F., Willensdorfer, M., Wolfrum, E., Stroth, U., Zohm, H., and ASDEX Upgrade Team: Characterisation of Pulsations Close to the L-H Transition in AUG. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.125 (2015).

Blanken, T. C., Felici, F., Rapson, C., TCV Team, and ASDEX Upgrade Team: Particle density modeling for real-time density profile reconstruction and fringe jump detection on TCV and ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.031 (2016).

Bock, A., Fable, E., Fischer, R., Reich, M., Rittich, D., Stober, J., Bernert, M., Burckhart, A., Dunne, M., Geiger, B.,

Giannone, L., Kappatou, A., Maj, O., McDermott, R., Mlynek, A., Poli, E., Tardini, G., Zohm, H., and ASDEX Upgrade Team: Non-Inductive Improved H-mode Operation in ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O3.110 (2016).

Bogomolov, A. V., Classen, I. G. J., Donne, A. J. H., Meyer, H., Dunne, M., Schneider, P. A., Wolfrum, E., Vanovac, B., Fischer, R., Frassinetti, L., Luhmann Jr., N. C., ASDEX Upgrade Team, and EUROfusion MST1 Team: The effect of nitrogen seeding on ELM filaments. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.112 (2015).

Bonanomi, N., Mantica, P., Giroud, C., Angioni, C., Citrin, J., Lerche, E., Manas, P., Sozzi, C., Taylor, D., Tsalas, M., Van Eester, D., and JET Contributors: Light impurities in JET plasmas: transport mechanisms and effects on thermal transport. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.004 (2016).

Bozhenkov, S. A., Fuchert, G., Niemann, H., Beurskens, M., Feng, Y., Ford, O., Geiger, J., Hirsch, M., Höfel, U., Jakubowski, M. W., Knauer, J., Kornejew, P., Langenberg, A., Laqua, H. P., Maaßberg, H., Marushchenko, N. B., Moseev, D., Pablant, N., Pasch, E., Rahbarnia, K., Stange, T., Svensson, J., Trimino Mora, H., Valson, P., Wurden, G., Zhang, D., Wolf, R. C., and W7-X Team: Power Balance Analysis of Wendelstein 7-X Plasmas Using Profile Diagnostics. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O2.106 (2016).

Brand, H. van den, Baar, M. de, Hennen, B., Oosterbeek, J. W., Bongers, W., Westerhof, E., Kasparek, W., Doelman, N., Klop, W., Giannone, L., Stober, J., Monaco, F., Schütz, H., Wagner, D., and ASDEX Upgrade Team: Combined Electron Cyclotron Emission and Heating for the Suppression of Magnetic Islands in Fusion Plasmas. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 002 (2015).

Breizman, B. N., and Aleynikov, P.: Production and damping of runaway electrons in a tokamak. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.111 (2016).

Brida, D., Lunt, T., Wischmeier, M., Carralero, D., Faitsch, M., Feng, Y., Kurzan, B., Scarabosio, A., Sieglin, B., Wolfrum, E., Zhang, W., ASDEX Upgrade Team, and EUROfusion MST1 Team: Numerical Investigation of Impurity Seeded Radiation

Enhancement in the Divertor Region with Magnetic Perturbations in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.140 (2015).

Bruhn, C., McDermott, R. M., Dux, R., Lebschy, A., Angioni, C., Bobkov, V., Cavedon, M., Kappatou, A., Ochoukov, R., Pütterich, T., Viezzer, E., and ASDEX Upgrade Team: Low-Z impurity transport studies using CXRS at ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.028 (2016).

Buratti, P., Baruzzo, M., Challis, C. D., Frigione, D., Garcia, J., Giovannozzi, E., Hender, T. C., Hobirk, J., Joffrin, E., Mailloux, J., Pucella, G., and JET Contributors: MHD in JET hybrid plasmas with the ITER like wall. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.115 (2015).

Burckhart, A., Ford, O., Reich, M., Wolf, R. C., and ASDEX Upgrade Team: Design of the new Imaging Motional Stark Effect Diagnostic at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.143 (2015).

Buttenschön, B., Burhenn, R., Kubkowska, M., Czarnecka, A., Fornal, T., Krawczyk, N., Zhang, D., Pablant, N., Langenberg, A., Valson, P., Thomsen, H., Biel, W., Aßmann, J., and W7-X Team: Spectroscopic impurity survey in the first operation phase of Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.012 (2016).

Carralero, D., Sun, H. J., Artene, S. A., Manz, P., Müller, H. W., Groth, M., Komm, M., Adamek, J., Aho-Mantila, L., Birkenmeier, G., Brix, M., Stroth, U., Vianello, N., Viezzer, E., Wischmeier, M., Wolfrum, E., ASDEX Upgrade Team, COMPASS Team, and JET Contributors: Towards a general scaling of the scrape-off layer density width. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O2.106 (2015).

Cavedon, M., Pütterich, T., Viezzer, E., Birkenmeier, G., Happel, T., Laggner, F., Ryter, F., Stroth, U., and ASDEX Upgrade Team: Study of the edge radial electric field during the L-H transition at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.130 (2015).

Chapman, S. C., Dendy, R. O., Lang, P. T., Watkins, N. W., Romanelli, M., Todd, T. N., and JET Contributors: Global control system and plasma dynamics distinguish naturally

occurring and pellet-precipitated edge localized modes in the JET tokamak. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.016 (2016).

Citrin, J., Bourdelle, C., Casson, F. J., Angioni, C., Breton, S., Felici, F., Garbet, X., Gürcan, O., Garzotti, L., Koechl, F., Imbeaux, F., Redondo, J., Strand, P., Szepesi, G., and JET Contributors: Flux-driven multi-channel simulations with the quasilinear gyrokinetic transport model QuaLiKiz. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.010 (2016).

Coelho, R., Faugeras, B., Giovannozzi, E., McCarthy, P., Zwingmann, W., Suchkov, E. P., Zaitsev, F. S., Dunne, M., Lupelli, I., Hawkes, N., and Szepesi, G.; JET Contributors, and ASDEX Upgrade Team: Integrated equilibrium reconstruction and MHD stability analysis of tokamak plasmas in the EU-IM platform. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.050 (2016).

Coelho, R., Merle, A., Vlad, G., Yadikin, D., Owsiaik, M., Sauter, O., Chapman, I., Dunne, M., Buratti, P., JET Contributors, ASDEX Upgrade Team, and EU-IM Team: Scientific workflows for MHD stability chain analysis of tokamak plasmas. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.178 (2015).

Conway, G. D., Lechte, C., Fochi, A., and ASDEX Upgrade Team: Assessment of Doppler reflectometry accuracy using full-wave codes with comparison to beam-tracing and analytic expressions. 12th International Reflectometry Workshop (IRW 12), Forschungszentrum Jülich (2015).

Cordaro, L., Zuin, M., Momo, B., Martines, E., Spolaore, M., Auriemma, F., Cavazzana, R., Masi, G. D., Scarin, P., Spagnolo, S., Vianello, N., Cester, D., Stevanato, L., Isliker, H., Vlahos, L., and Schneider, W.: Current sheet fragmentation following magnetic reconnection in RFP plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P5.015 (2016).

Costea, S., Rasmussen, J. J., Vianello, N., Müller, H. W., Naulin, V., Schrittwieser, R., Nielsen, A. H., Madsen, J., Ionita, C., Spolaore, M., Carralero, D., Mehlmann, F., and ASDEX Upgrade Team: Investigation on radial transport of perpendicular momentum in the SOL of AUG during L-I-H transition. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.151 (2015).

D'Arcangelo, O., Tudisco, O., Ceccuzzi, S., Fünfgelder, H., Rocchia, G., Conway, G. D., De Masi, G., Fattorini, L., Friesen, J., Meneses, L., Noterdaeme, J. M., Siegl, G., Silva, A., Simonetto, A., Tuccillo, A. A., Vierle, T., Zammuto, I., ASDEX Upgrade Team, and FTU Team: Design, laboratory characterization and installation of the multichannel reflectometer's transmission lines at ICRF antenna in ASDEX Upgrade. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 067 (2015).

D'Inca, R. D., Kostic, A., Ochoukov, R., Crombe, K., Usoltceva, M., Moreno, J., Nikiforov, A., Jacquot, J., Louche, F., Eester, D. V., Heuraux, S., Devaux, S., Moritz, J., Faudot, E., Fischer, F., Siegl, G., Fünfgelder, H., Faugel, H., and Noterdaeme, J.-M.: Characterization of the RF plasma in ISHTAR. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O5.129 (2016).

D'Inca, R. D., Ochoukov, R., Crombe, K., Morgal, I., Jacquot, J., Louche, F., Van Eester, D., Heuraux, S., Devaux, S., Moritz, J., Faudot, E., Fischer, F., Siegl, G., Fünfgelder, H., Faugel, H., and Noterdaeme, J.-M.: Development and first operations of the ISHTAR test facility. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.154 (2015).

Delabie, E., Chankin, A. V., Maggi, C. F., Meyer, H., Biewer, T. M., Bourdelle, C., Brix, M., Carvalho, I., Drewelow, P., Guillemaut, C., Hawkes, N. C., Hillesheim, J., Keeling, D., Klepper, C., Meigs, A., Meneses, L., Rimini, F., Sips, G., Solano, E., Stamp, M., Svensson, J., and JET Contributors: The relation between divertor conditions and the L-H threshold on JET. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O3.113 (2015).

Dif-Pradalier, G., Hornung, G., Ghendrih, P., Clairet, F., Diamond, P. H., Sarazin, Y., Vermare, L., Abiteboul, J., Cartier-Michaud, T., Ehrlacher, C., Esteve, D., Garbet, X., Grandgirard, V., Gürcan, Ö. D., Hennequin, P., Kosuga, Y., Latu, G., Morel, P., Norscini, C., and Sabot, R.: The Plasma E×B Staircase: Turbulence Self-regulation through Spontaneous Flow Patterning. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.121 (2015).

Dinklage, A., Alonso, A., Baldzuhn, J., Beidler, C. D., Biedermann, C., Blackwell, B., Bozhenkov, S., Brakel, R., Buttenschön, B., Feng, Y., Fuchert, G., Geiger, J., Helander, P., Hirsch, M., Höfel, U., Knauer, J., Krämer-Flecken, A., Landreman, M., Langenberg, A., Laqua, H. P., Maaßberg, H.,

Pablant, N. A., Pasch, E., Rahbarnia, K., Rudischhauser, L., Smith, H., Stange, T., Stephey, L., Trimino Mora, H., Turkin, Y., Velasco, J.-L., Wurden, G., Zhang, D., Andreeva, T., Beurskens, M., Blanco, E., Bosch, H.-S., Burhenn, R., Cappa, A., Czarnecka, A., Dostal, M., Drews, P., Endler, M., Estrada, T., Fornal, T., Grulke, O., Hartmann, D., Harris, J. H., Jakubowski, M., Klinger, T., Klose, S., Kocsis, G., König, R., Kornejew, P., Krawczyk, N., Krychowiak, M., Kubkowska, M., Ksiazek, I., Lazerson, S., Liang, Y., Liu, S., Marchuk, O., Marsen, S., Marushchenko, N. B., Moncada, V., Moseev, D., Naujoks, D., Niemann, H., Otte, M., Pedersen, T. S., Pisano, F., Riße, K., Rummel, T., Schmitz, O., Satake, S., Schröder, T., Szepesi, T., Thomsen, H., Traverso, P., Tsuchiya, H., Valson, P., Wang, N., Wauters, T., Weir, G., Wolf, R. C., Yokoyama, M., and W7-X Team: Core Confinement in Wendelstein 7-X Limiter Plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O2.107 (2016).

Doerk, H., Challis, C., Citrin, J., Dunne, M., Garcia, J., Görler, T., Jenko, F., Ryter, F., Schneider, P. A., Wolfrum, E., ASDEX Upgrade Team, and JET Contributors: Turbulence stabilization due to high beta and fast ions in high-performance plasmas at ASDEX Upgrade and JET. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.153 (2015).

Drewelow, P., Kruezi, U., Koslowski, H. R., Lehnert, M., Matthews, G. F., and JET Contributors: Measurement of radiation asymmetries during disruption mitigation at JET. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.128 (2015).

Drews, P., Liang, Y., Neubauer, O., Liu, S., Dostal, M., Denner, P., Rack, M., Wang, N., Nicolai, D., Geiger, J., Krämer-Flecken, A., Grulke, O., König, R., Charl, A., Schweer, B., Gao, Y., Hollfeld, K. P., Satheeswaran, G., Sandri, N., Höschen, D., and W7-X Team: Preliminary results on the measurement of plasma edge profiles using the combined probe on W7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.025 (2016).

Dunne, M., Frassinetti, L., Beurskens, M., Cavedon, M., Fischer, R., Huijsmans, G. T. A., Laggner, F. M., McDermott, R., Tardini, G., Viezz, E., Wolfrum, E., EUROfusion MST1 Team, and ASDEX Upgrade Team: Impact of nitrogen seeding on the AUG pedestal: experiments and modelling. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O2.109 (2015).

Dux, R., Geiger, B., McDermott, R., and Viezzer, E.: A forward model for beam emission spectroscopy at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.121 (2015).

Erofeev, I., Fable, E., Angioni, C., Lang, P. T., McDermott, R., and ASDEX Upgrade Team: Validation of the TGLF model against Ohmic confinement transition and impurity transport experiment in ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.037 (2016).

Faudot, E., Devaux, S., Moritz, J., Heuraux, S., Usoltceva, M., Nikiforov, A., Crombe, K., D'Inca, R., and Jacquot, J.: RF potential oscillations in a magnetized capacitive discharge. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.057 (2016).

Faustin, J. M., Graves, J. P., Cooper, W. A., Geiger, J., and Pfefferlé, D.: Modelling of ICRF fast ion generation in 2D and 3D plasma configurations. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.136 (2016).

Felici, F., Rapson, C., Treutterer, W., Giannone, L., Maljaars, E., van den Brand, H., Reich, M., Sauter, O., Teplukhina, A., Kim, D., Piovesan, P., Piron, C., Barrera, L., Willensdorfer, M., Bock, A., Fable, E., Geiger, B., Tardini, G., ASDEX Upgrade Team, and EUROfusion MST1 Team: Real-time plasma profile state reconstruction on ASDEX-Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.127 (2015).

Février, O., Maget, P., Lütjens, H., Giruzzi, G., Reich, M., Sauter, O., Beyer, P., ASDEX Upgrade Team, and EUROfusion MST1 Team: Modeling of the impact of ECCD sweeping on NTM stability in ASDEX-Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.104 (2015).

Fietz, S., Coelho, R., Classen, I., Maraschek, M., Suttrop, W., Zohm, H., EUROfusion MST1 Team, and ASDEX Upgrade Team: Study of suppressed tearing modes seeded with non-axisymmetric magnetic perturbation fields at the ASDEX Upgrade tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.123 (2015).

Figueiredo, J., Murari, A., Perez von Thun, C., Marocco, D., Tardocchi, M., Belli, F., Garcia Munoz, M., Silva, A., Soare, S., Craciunescu, T., Santala, M., Blanchard, P., Croft, D., and

JET Contributors: JET Diagnostic Enhancements in Preparation for DT Operations. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 142 (2015).

Fil, A., Nardon, E., Högl, M., Huijsmans, G. T. A., Orain, F., Becoulet, M., Beyer, P., Dif-Pradalier, G., Guirlet, R., Koslowski, H. R., Lehnert, M., Morales, J., Pamela, S., Reux, C., Saint-Laurent, F., Sommariva, C., and JET Contributors: Modeling of disruption mitigation by massive gas injection in JET with JOREK and IMAGINE. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.135 (2015).

Fischer, R., Bock, A., Burckhart, A., Dunne, M., Ford, O., Fuchs, J. C., Giannone, L., Gude, A., Iguchine, V., Lebschy, A., Maraschek, M., McCarthy, P. J., Mlynek, A., Snicker, A., Stober, J., Tardini, G., Weiland, M., Willensdorfer, M., and ASDEX Upgrade Team: Upgraded equilibrium reconstruction by coupling of an extended set of measurements with current diffusion modelling at ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.016 (2016).

Fischer, R., Giannone, L., Lackner, K., McDermott, R., Viezzer, E., Zehrfeld, H.-P., and ASDEX Upgrade Team: Effect of measured toroidal flows on tokamak equilibria. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.117 (2015).

Frassinetti, L., Beurskens, M. N. A., Saarelma, S., Boom, J., Delabie, E., Flanagan, J. C., Kempenaars, M., Giroud, C., Lomas, P., Meneses, L., Menmuir, S., Nunes, I., Rimini, F., and JET Contributors: Confinement and pedestal in dimensionless collisionality scans of low triangularity H-mode plasmas in JET-ILW. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.130 (2015).

Freathy, S. J., Conway, G. D., Classen, I., Creely, A., Happel, T., Vanovac, B., White, A. E., and ASDEX Upgrade Team: Development progress of a Correlation ECE and n-T phase angle diagnostic for AUG. 12th International Reflectometry Workshop (IRW 12), Forschungszentrum Jülich (2015).

Freathy, S. J., Conway, G. D., Classen, I., Creely, A. J., Happel, T., Vanovac, B., White, A. E., and ASDEX Upgrade Team: Measurement of turbulent electron temperature fluctuations on the ASDEX Upgrade tokamak using correlated Electron Cyclotron Emission. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.024 (2016).

Freathy, S. J., McClements, K. G., Chapman, S. C., Dendy, R. O., Lai, W. N., Pamela, S. J. P., Shevchenko, V. F., and Vann, R. G L.: Electron kinetics inferred from observations of microwave bursts during edge localised modes in the Mega-Amp Spherical Tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O2.107 (2015).

Frigione, D., Challis, C., Garcia, J., Hobirk, J., Alper, B., Artaserse, G., Angioni, C., Baruzzo, M., Belonohy, E., Bilato, R., Brett, A., Buratti, P., Carvalho, I., Casson, F., Frassinetti, L., Garzotti, L., Giovannozzi, E., Grist, D., Hawkes, N. C., Lerche, E., Mailloux, J., Mantica, P., Maslov, M., Morris, J., Pucella, G., Rachlew, E., Reich, M., Rimini, F., Sips, A. C. C., Stamp, M. F., Tamain, P., Tsallas, M., Valisa, M., Weisen, H., and JET Contributors: Overview of hybrid development in JET with ITER-Like Wall. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.116 (2015).

Fuchert, G., Birkenmeier, G., Carralero, D., Manz, P., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Spatiotemporal variations of blob properties in ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.034 (2016).

Fuchert, G., Carralero, D., Manz, P., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Quantitative prediction of the blob generation rate. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.139 (2015).

Futatani, S., Pamela, S., Huijsmans, G. T. A., Garzotti, L., Frigione, D., Loarte, A., Högl, M., Lang, P. T., Kocsis, G., Orain, F., Dunne, M., Lessig, A., Mantsinen, M., EUROfusion MST1 Team, and ASDEX Upgrade Team: Non-linear MHD Simulations of Pellet Triggered ELMs in JET and ASDEX Upgrade tokamaks. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O5.125 (2016).

Gallart, D., Mantsinen, M. J., Garzotti, L., Bilato, R., Challis, C., Garcia, J., Gutierrez-Milla, A., Johnson, T., Lerche, E., Sáez, X., Van Eester, D., and JET Contributors: Simulations of combined ICRF and NBI heating for high fusion performance in JET. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.003 (2016).

Gao, Y., Rack, M., Liang, Y., Sieglin, B., Denner, P., Suttrop, W., Kirk, A., Wolfrum, E., EUROfusion MST1 Team, and ASDEX

Upgrade Team: Effects of 3D magnetic perturbation on divertor heat load redistribution on ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.107 (2015).

Garcia, L., Ochando, M. A., Carreras, B. A., Carralero, D., Hidalgo, C., and Van Milligen, B. P.: Effect of fast electrons on the stability of resistive interchange modes. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.012 (2016).

Garcia-Munoz, M., Van Zeeland, M. A., Sharapov, S., Classen, I. G. J., Bobkov, V., Galdon-Quiroga, J., Geiger, B., Igochine, V., Lauber, P., Lazanyi, N., Nabais, F., Nikoleva, V., Pace, D. C., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Schneller, M., Snicker, A., Stober, J., and ASDEX Upgrade Team: Impact of localized ECRH on Alfvén Eigenmodes in the ASDEX Upgrade tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.118 (2015).

Garcia-Regana, J. M., Smith, H., Turkin, Y., Sertoli, M., Angioni, C., Bustos, A., Cooper, W. A., Geiger, J., Kleiber, A., Strumberger, E., and ASDEX Upgrade Team: Neoclassical transport in displaced tokamak helical cores. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.170 (2015).

Garland, S., Fuchert, G., Ramisch, M., and Hirth, T.: The effect of magnetic field geometry on filamentary plasma structures in TJ-K. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P5.050 (2016).

Geiger, B., Dux, R., Dunne, M., Lebschy, A., McDermott, R., Reimer, R., Salewski, M., Tardini, G., Weiland, M., and ASDEX Upgrade Team: Measurement and interpretation of active Balmer alpha spectra at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.116 (2015).

Giannone, L., Geiger, B., Bilato, R., Maraschek, M., Odstrcil, T., Fischer, R., Fuchs, C., McCarthy, P. J., Mertens, V., Schubbeck, K.-H., and ASDEX Upgrade Team: Real-time diamagnetic flux measurements on ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.061 (2016).

Granucci, G., Esposito, B., Maraschek, M., Giannone, L., Gude, A., Poli, E., Rapson, C. J., Reich, M., Stober, J., Treutterer, W., Willensdorfer, M., Cianfarani, C., Pucella, G., Sozzi, C., Galperti, C., Nowak, S., W7-X ECRH Team, ASDEX Upgrade Team, and MST1 Team: Stable Operation at Disruptive Limits by Means of EC at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.108 (2015).

Gude, A., Maraschek, M., Eulenberg, P., Igochine, V., and ASDEX Upgrade Team: Automated sawtooth detection with multi-signal analysis. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.122 (2015).

Guimaraes, L., Nikolaeva, V., Potzel, S., Reimold, F., Bernert, M., Carralero, D., Conway, G. D., Manso, M. E., Santos, J., Silva, A., Silva, C., and Wolfrum, E.: LFS/HFS edge density profile dynamics on ASDEX-Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.111 (2015).

Guimaraes, L., Potzel, S., Silva, C., Reimold, F., Bernert, M., Carralero, D., Conway, G. D., Manso, M. E., Nikolaeva, V., Santos, J., Silva, A., Wolfrum, E., EUROfusion MST1 Team, and ASDEX Upgrade Team: Poloidal asymmetries in the edge density profiles on ASDEX-Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.018 (2016).

Hindenlang, F., Sonnendrücker, E., and Hözl, M.: A Parallel 3D Discontinuous Galerkin Framework for Nonlinear Resistive MHD Simulations in Tokamak and Stellarator Geometries. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.040 (2016).

Hirsch, M., Benndorf, A., Blanco, E., Burhenn, R., Cappa, A., Estrada, T., Ewert, K., Gliege, G., Hartfuss, H.-J., Heuer, C., Herrmann, R., Kasparek, W., Knauer, J. P., Kornejew, P., Krämer-Flecken, A., Lapayese, F., Milligen, B. van, Mohr, S., Neuner, U., Pacios, L., Peña, A. de la, Pilipp, D., Plaum, B., Rüter, N., Sieber, T., Stange, T., Steffen, M., Pedersen, T. S., Trimino-Mora, H., Wagner, D., Windisch, T., and Wolf, S.: Microwave and Interferometer Diagnostics prepared for first Plasma Operation of Wendelstein 7-X. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 111 (2015).

Hirsch, M., Geiger, J., Hartfuss, H.-J., Höfel, U., Köster, F., Maßberg, H., Marushchenko, N. B., Schmuck, S., Stange, T.,

Svensson, J., Tsuchiya, H., Weir, G., Wolf, R. C., and W7-X Team: ECE measurements in WENDELSTEIN 7-X plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.007 (2016).

Höfel, U., Bozhenkov, S., Fuchert, G., Geiger, J., Hartfuss, H.-J., Hirsch, M., Köster, F., Maßberg, H., Marushchenko, N. B., Pasch, E., Schmuck, S., Stange, T., Tsuchiya, H., Turkin, Y., Velasco, J.-L., Weir, G., Wolf, R., and W7-X Team: First measurement on electron heat transport by heatwaves in the core plasma of Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.008 (2016).

Horacek, J., Pitts, R. A., Gunn, J., Silva, C., Rudakov, D., Arnoux, G., Marsen, S., Vondracek, P., Maddaluno, G., Pericoli, V., Viola, B., Xu, G. S., Wang, H., Nie, L., LaBombard, B., Brezinsek, S., Xu, Y., Shimada, M., Adamek, J., Bak, J.-G., Popov, T., Dimitrova, M., Seidl, J., Janky, F., Havlicek, J., Panek, R., Goldston, R. J., and Stangeby, P. C.: Multi-tokamak scaling of main SOL heat flux width in limiter plasmas. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O2.105 (2015).

Horvath, L., Maggi, C. F., Casson, F. J., Frassinetti, L., Dunne, M., Hobirk, J., Lupelli, I., Gibson, K. J., and JET Contributors: Evolution of the bootstrap current profile during the type I ELM cycle of JET-ILW H-mode plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.015 (2016).

Horvath, L., Papp, G., Pokol, G. I., Lauber, P., Por, G., Gude, A., Igochine, V., and ASDEX Upgrade Team: Fast changes in the mode structure of chirping energetic particle driven modes. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.148 (2015).

Igochine, V., Classen, I., Günter, S., Gude, A., Lackner, K., Maraschek, M., McDermott, R., Sertoli, M., Vezinet, D., Willensdorfer, M., Yu, Q., Zohm, H., and ASDEX Upgrade Team: NTM seeding by strong internal events at different β_N in ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.020 (2016).

Igochine, V., Lauber, P., Piovesan, P., Schneller, M., Strumberger, E., Suttrop, W., Yadykin, D., Bettini, P., Bogomolov, A., Bolzonella, T., Classen, I. G. J., Dunne, M., Gude, A., Maraschek, M., Marrelli, L., McDermott, R., Reich, M., and

Tardini, G.: Beta limit and plasma response to n=1 perturbations in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.114 (2015).

Ismailov, R. E., Aleynikov, P., and Konovalov, S. V.: Dreicer mechanism of runaway electron generation in presence of high-Z impurities. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.022 (2016).

Jachmich, S., Drewelow, P., Gerasimov, S., Kruezi, U., Lehnen, M., Reux, C., Riccardo, V., Carvalho, I., Pau, A., Imsirek, M., Joffrin, E., and JET Contributors: Disruption mitigation at JET using massive gas injection. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.123 (2016).

Jacobsen, A. S., Salewski, M., Geiger, B., Stagner, L., Eriksson, J., Nielsen, S. K., Heidbrink, W. W., Korsholm, S. B., Leipold, F., Rasmussen, J., Stejner, M., Weiland, M., and ASDEX Upgrade Team: Determining fast-ion velocity-space distribution functions using velocity-space tomography. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.106 (2015).

Järvinen, A. E., Brezinsek, S., Giroud, C., Groth, M., Guillemaut, C., Belo, P., Corrigan, G., Drewelow, P., Harting, D., Huber, A., Lawson, K., Lipschultz, B., Maggi, C., Matthews, G. F., Meigs, A. G., Moulton, D., Stamp, M. F., Wiesen, S., and JET Contributors: Interpretation of partially detached divertor operation with and without impurity seeding in JET with EDGE2D-EIRENE. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.105 (2015).

Kalupin, D., Asunta, O., Coelho, R., Coster, D., Ferreira, J., Figueiredo, A., Gal, K., Ivanova-Stanik, I., Jonnson, T., Owsiak, M., Palak, B., Schneider, M., Stankiewicz, R., Strand, P., and EU-IM Team: Predictive simulations of reactor-scale plasmas fuelled with multiple pellets with the European Transport Simulator. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.169 (2015).

Kantor, M. Y., and Donne, A. J. H.: Thomson Scattering with laser intra-cavity multipass system to study fast changing structures in fusion plasma. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 034 (2015).

Kappatou, A., McDermott, R., Angioni, C., Pütterich, T., Dux, R., Jaspers, R. J. E., Viezz, E., Cavedon, M., Fischer, R., Willensdorfer, M., Tardini, G., EUROfusion MST1 Team, and ASDEX Upgrade Team: Helium transport investigations at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.128 (2015).

Kapper, G., Kernbichler, W., Kasilov, S. V., and Marushchenko, N. B.: Modeling of electron cyclotron current drive for finite collisionality plasmas in Wendelstein 7-X. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.164 (2015).

Karhunen, J., Groth, M., Heliste, P., Makkonen, T., Hakola, A., Viezz, E., Pütterich, T., and ASDEX Upgrade Team: Nitrogen as a spectroscopic tracer for measuring plasma flows in the high-field side SOL of ASDEX Upgrade. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 038 (2015).

Käsemann, C.-P., Grois, E., Rott, M., Arden, N., Peglau, M., and ASDEX Upgrade Team: Herausforderungen für die Energieversorgung von Fusions-Experimenten und langfristige Perspektiven. Proceedings of the 10th Transformer-Life-Management Conference (TLM 2016). online, 15-21 (2016).

Käsemann, C.-P., Grois, E., Stobbe, F., Rott, M., Klaster, K., and ASDEX Upgrade Team: Pulsed power supply system of the ASDEX upgrade Tokamak research facility. 15th IEEE International Conference on Environment and Electrical Engineering (EEEIC). IEEE, Piscataway, NJ, 237-242 (2015).

Kirneva, N., Blanchard, P., Coda, S., Kakurin, A. M., Karpushov, A., Kliuchnikov, L. A., Krupin, V. A., Krylov, S. V., Kudlacek, O., Labit, B., Maltsev, S. G., Moret, J.-M., Myalton, T. B., Pavlov, Y. D., Ryjakov, D. V., Sauter, O., Sarichev, D. V., Sergeev, D. S., Solomatin, R. Y., Testa, D., Trukhin, V. M., Trukhina, E. V., Vershkov, V. A., TCV Team, and T-10 Team: Plasma confinement properties at high density in TCV and T-10 tokamaks. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.029 (2016).

Knauer, J., Kornejew, P., Trimino Mora, H., Hirsch, M., Werner, A., Wolf, R. C., and W7-X Team: A New Dispersion Interferometer for the Stellarator Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.017 (2016).

Kocsis, G., Alonso, A., Biedermann, C., Cseh, G., Dinklage, A., Jakubowski, M., König, R., Krychowiak, M., Otte, M., Pedersen, T. S., Szepesi, T., Zoletnik, S., and W7-X Team: Investigation of edge filament dynamics in W7-X limiter plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.003 (2016).

Kocsis, G., Lang, P. T., Cseh, G., Dunne, M., Horvath, L., Mertens, V., Meyer, H., Plöckl, B., Pokol, G. I., Poloskei, P. Z., Sieglin, B., Szepesi, T., Viezzier, E., EUROfusion MST1 Team, and ASDEX Upgrade Team: Reliability study of pellet ELM pace making. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.171 (2015).

Köhn, A., Thomas, M., Vann, R. G. L., Holzhauer, E., and Leddy, J.: Perturbations of microwaves due to plasma density fluctuations. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.189 (2015).

Koskela, T., Snicker, A., Sipilä, S., Salmi, A., Johnson, T., Marchetto, C., Schneider, M., Romanelli, M., Weisen, H., and JET Contributors: Improvement of neutron yield predictions in JET with ASCOT. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.106 (2015).

Krieger, K., Coenen, J. W., Brida, D., Gao, Y., Gunn, J. P., Hakola, A., Herrmann, A., Lunt, T., Potzel, S., Sieglin, B., ASDEX Upgrade Team, and EUROfusion MST1 Team: Efficiency of surface shaping for protection of leading edges in the divertor of ASDEX Upgrade from direct plasma exposure. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.129 (2015).

Kurzan, B., and Giannone, L.: Electron density and temperature structures during edge localized modes in the edge plasma of ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.120 (2015).

Laggner, F. M., Wolfrum, E., Dunne, M. G., Cavedon, M., Manz, P., Birkenmeier, G., Fischer, R., Viezzier, E., Willensdorfer, M., Aumayr, F., EUROfusion MST1 Team, and ASDEX Upgrade Team: The effects of triangularity and main ion species on the inter-ELM profile evolution in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.147 (2015).

Laggner, F. M., Wolfrum, E., Mink, F., Cavedon, M., Dunne, M., Manz, P., Birkenmeier, G., Fischer, R., Maraschek, M., Viezzier, E., Willensdorfer, M., Aumayr, F., EUROfusion MST1 Team, and ASDEX Upgrade Team: Inter-ELM pedestal evolution: High frequency magnetic fluctuations correlated with the clamping of the pressure gradient. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.119 (2016).

Lang, P. T., Casali, L., Day, Ch., Dunne, M., Fable, E., Fischer, R., Kardaun, O., Kocsis, G., Kurzan, B., McDermott, R., Mertens, V., Mlynek, A., Plöckl, B., Rapson, C., Sharov, I., Szepesi, T., Treutterer, W., Viezzier, E., Zohm, H., and ASDEX Upgrade Team: Controlled fuelling of high density scenarios at ASDEX Upgrade in support of ITER and DEMO. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.127 (2015).

Lang, P. T., Maingi, R., Mansfield, D. K., McDermott, R., Neu, R., Wolfrum, E., Arredondo Parra, R., Bernert, M., Birkenmeier, G., Diallo, A., Dunne, M., Fable, E., Fischer, R., Geiger, B., Hakola, A., Kocsis, G., Laggner, F., Oberkofler, M., Plöckl, B., Sieglin, B., and ASDEX Upgrade Team: Impact of Lithium pellets on the plasma performance in the all-metal-wall tokamak ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.021 (2016).

Langenberg, A., Pablant, N. A., Marchuk, O., Valson, P., Traverso, P., Burhenn, R., Alonso, A., Zhang, D., Butten schön, B., Svensson, J., Gates, D., Beurskens, M., Wolf, R. C., and W7-X Team: Temporal Evolution of Temperature and Argon Impurity Density Profiles Observed by X-ray Imaging Spectrometer Measurements at Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.014 (2016).

Lazerson, S., Drevlak, M., Bolgert, P., Gates, D., McMillan, M., and W7-X Team: Predictions of Neutral Beam Deposition and Energetic Particle Losses in W7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.019 (2016).

Lebschy, A., McDermott, R. M., Angioni, C., Geiger, B., Cavedon, M., Conway, G. D., Dux, R., Fable, E., Happel, T., Kappatou, A., Medvedeva, A., Pütterich, T., Prisyazhnyuk, D., Ryter, F., Stroth, U., Viezzier, E., and ASDEX Upgrade Team: Measurement of the $E \times B$ velocity across the LOC-SOC transition. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.029 (2016).

Lebschy, A., McDermott, R., Geiger, B., Cavedon, M., Dunne, M., Dux, R., Fischer, R., Viezzier, E., and ASDEX Upgrade Team: Indirect measurement of the poloidal rotation in the core of ASDEX Upgrade plasmas with charge exchange recombination spectroscopy. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.137 (2015).

Lessig, A., Hölzl, M., Orain, F., Krebs, I., Günter, S., Franck, E., Morales, J., Becoulet, M., Huysmans, G., Dunne, M., and ASDEX Upgrade Team: Non-linear simulations of ELMs in ASDEX Upgrade including diamagnetic drift effects. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.128 (2015).

Lu, L., Colas, L., Jacquot, J., Després, B., Heuraux, S., Faudot, E., Eester, D. V., Crombé, K., Křivská, A., and Noterdaeme, J.-M.: Non-linear radio frequency wave-sheath interaction in magnetized plasma edge: the role of the fast wave. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.068 (2016).

Lunt, T., Canal, G. P., Duval, B. P., Feng, Y., Labit, B., McCarthy, P., Reimerdes, H., Vijvers, W. A. J., Wischmeier, M., and EUROfusion MST1 Team: Optimization of the snowflake divertor by means of EMC3-Eirene simulations and experiments. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.115 (2015).

Mackel, F., Haas, G., and Scarabosio, A.: Conceptual design studies of ionization gauges for the measurement of neutral gas density at high pressures and high magnetic fields. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.044 (2016).

Maljaars, E., Brand, H. v. d., Felici, F., Rapson, C., Treutterer, W., Sauter, O., and Baar, M. R. de: Simultaneous control of plasma profiles and neoclassical tearing modes with actuator management in tokamaks. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.184 (2015).

Manas, P., Camenen, Y., Benkadda, S., Weisen, H., Angioni, C., Casson, F. J., Giroud, C., Gelfusa, M., and JET Contributors: Gyrokinetic modelling of light impurity peaking in JET baseline and hybrid H-modes: a missing ingredient? 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.113 (2015).

Mantica, P., Casson, F. J., Valisa, M., Angioni, C., Bilato, R., Belonohy, E., Giroud, C., Goniche, M., Hawkes, N., Lerche, E., and JET Contributors: Progress in understanding W control using ICRH in the JET ILW tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.101 (2015).

Mantsinen, M. J., Bobkov, V., Gallart, D., Geiger, B., Johnson, T., Meyer, H., Nocente, M., Ochoukov, R., Odstrcil, T., Perelli, E., Rasmussen, J., Schneider, P. A., Sharapov, S., Tardini, G., Tardocchi, M., Vallejós, P., ASDEX Upgrade Team, and EUROfusion MST1 Team: Third harmonic ICRF heating of deuterium beam ions on ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.035 (2016).

Maraschek, M., Reich, M., Behler, K., Giannone, L., Gude, A., Poli, E., Rapson, C., Sauter, O., Stober, J., Treutterer, W., Zohm, H., ASDEX Upgrade Team, and EUROfusion MST1 Team: Real-time control of MHD instabilities using ECCD in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.112 (2015).

Marini, C., Duval, B. P., Furno, I., Howling, A. A., Jacquier, R., Karpushov, A. N., Guittienne, P., Fantz, U., Wunderlich, D., Béchu, S., and Simonin, A.: Spectroscopic measurements of hydrogen dissociation degree and H⁻ production in resonant antenna-generated helicon plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.110 (2016).

Marsen, S., Stange, T., Gellert, F., Höfel, U., Laqua, H. P., Moseev, D., Preynas, M., and W7-X Team: Performance of ECR heating during the first operational phase of W7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.002 (2016).

Martitsch, A. F., Kasilov, S. V., Kernbichler, W., Heyn, M. F., Strumberger, E., Fietz, S., Suttrop, W., Kirk, A., ASDEX Upgrade Team, and, EUROfusion MST1 Team: Evaluation of the neoclassical toroidal viscous torque in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.146 (2015).

Mastrostefano, S., Bettini, P., Bolzonella, T., Igochine, V., Liu, Y., Villone, F., and Yadykin, D.: MHD modes analysis in high-beta ASDEX Upgrade configurations including a 3D model of conductors. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.149 (2015).

McCarthy, P. J., Lackner, K., Zohm, H., Lunt, T., Fuchs, C., Giannone, L., Suttrop, W., and ASDEX Upgrade Team: Advanced divertor equilibrium calculations with finite current density on the plasma boundary. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.188 (2015).

McDermott, R., Odstrcil, T., Angioni, C., Duval, B. P., Karpushov, A. N., Fischer, R., Salmi, A., Tala, T., Tardini, G., Viezzer, E., and ASDEX Upgrade Team: Diffusive and non-diffusive contributions to momentum transport in AUG experiments and the European intrinsic rotation database. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.118 (2015).

Medvedeva, A., Biancalani, A., Bottreau, C., Clairet, F., Conway, G. D., Heuraux, S., Molina, D., Silva, A., Stroth, U., and ASDEX Upgrade Team: Density fluctuations measurements with an ultra-fast-swept reflectometer in ASDEX Upgrade. 12th International Reflectometry Workshop (IRW 12), Forschungszentrum Jülich (2015).

Medvedeva, A., Birkenmeier, G., Bottreau, C., Cavedon, M., Clairet, F., Conway, G. D., Hennequin, P., Heuraux, S., Molina, D., Silva, A., Stroth, U., and ASDEX Upgrade Team: Density profile and turbulence evolution during L-H transition studied with the Ultra-fast swept reflectometer on ASDEX Upgrade. 43rd EPS Conference on Plasma Physics, (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.032 (2016).

Meister, H., Eixenberger, H., Gliss, C., Kampke, A., Kannamüller, M., Koll, J., Penzel, F., Kotroczi, K., Pataki, A., Szűcs, J., Veres, G., Fekete, T., Tatar, L., Detemple, P., Mpoukouvalas, K., and Schmitt, S.: Overview of the R&D Activities for the ITER Bolometer Diagnostic. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 079 (2015).

Meshcheriakov, D., Igochine, V., Fietz, S., Höglund, M., Orain, F., Zohm, H., Günter, S., Lackner, K., and Team, A. U.: Numerical study of tearing mode seeding by externally provided perturbation of resonant surface. 43rd EPS Conference on Plasma Physics, (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.059 (2016).

Meshcheriakov, D., Igochine, V., Zohm, H., Gude, A., Maraschek, M., Moseev, D., Vezinet, D., Dunne, M., and ASDEX Upgrade Team: Representation of finite amplitude ideal magnetohydrodynamic modes. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.175 (2015).

Mink, F., Wolfrum, E., Maraschek, M., Zohm, H., Horváth, L., Viezzer, E., Laggner, F. M., Dunne, M., Manz, P., Stroth, U., and ASDEX Upgrade Team: Characterization of inter-ELM magnetic oscillations on ASDEX Upgrade. 43rd EPS Conference on Plasma Physics, (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.022 (2016).

Neubauer, O., Allahyari, R., Brezinsek, S., Czymek, G., Denner, P., Harberts, F., Knaup, M., König, R., Krychowiak, M., Schweer, B., and W7-X Team: Optical Instruments for Local Divertor Observation at Wendelstein 7-X. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 113 (2015).

Nielsen, A. H., Aho-Mantila, L., Madsen, J., Müller, H. W., Vianello, N., Radhakrishnan, H., Signoret, J., Wischmeier, M., Sieglin, B., Carralero, D., Birkenmeier, G., Coelho, R., Juul Rasmussen, J., Naulin, V., Løiten, M., Tophøj, L., Schrittwieser, R., Costea, S., EUROfusion MST1 Team, EU-IM Team, and ASDEX Upgrade Team: First principle numerical simulations of the SOL in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.105 (2015).

Niemann, H., Jakubowski, M., Pedersen, T. S., König, R., Wurden, G. A., Effenberg, F., Zhang, D., and W7-X Team: Power loads in the limiter phase of Wendelstein 7-X. 43rd EPS Conference on Plasma Physics, (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.005 (2016).

Nikolaeva, V., Manz, P., Guimaraes, L., Conway, G. D., Fischer, R., Manso, M. E., Ribeiro, T., Ryter, F., Silva, C., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Dependence of poloidal asymmetries of the edge turbulence on the magnetic configurations in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.110 (2015).

Oberparleiter, M., Doerk, H., Görler, T., Jenko, F., Nordman, H., and Told, D.: Interaction between turbulence and neoclassical effects in global gyrokinetic simulations with GENE. 43rd EPS Conference on Plasma Physics, (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.045 (2016).

Ochoukov, R., Bobkov, V., Angioni, C., Bernert, M., Dunne, M., Dux, R., Neu, R., Noterdaeme, J.-M., Odstrcil, T., Pütterich, T., Reimold, F., ASDEX Upgrade Team, and EUROfusion MST1 Team: Evolution of ELMy H-mode performance in presence

of core radiation on ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.131 (2015).

Odstrcil, T., Pütterich, T., Bilato, R., Weiland, M., Gude, A., Mazon, D., and ASDEX Upgrade Team: Investigation of the fast particle velocity space by diagnosing poloidal asymmetries of heavy ions at ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.055 (2016).

Odstrcil, T., Pütterich, T., Weiland, M., Odstrcil, M., Gude, A., and ASDEX Upgrade Team: SXR tomography of tungsten radiation patterns with and without MHD. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.133 (2015).

Orain, F., Lessig, A., Hölzl, M., Viezzer, E., Dunne, M., Becoulet, M., Cahyna, P., Huijsmans, G. T. A., Willendorfer, M., Suttrop, W., Kirk, A., Pamela, S., Günter, S., Lackner, K., Strumberger, E., Taray, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Non-linear modeling of the Edge Localized Modes and their control by Resonant Magnetic Perturbations in ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.017 (2016).

Otte, M., Andreeva, T., Biedermann, C., Bozhenkov, S., Bykhov, V., Bräuer, T., Endler, M., Geiger, J., Kocsis, G., Lazerson, S., Szepesi, T., Pedersen, T. S., and W7-X Team: Magnetic Flux Surface Measurements at Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O2.105 (2016).

Pablant, N. A., Dinklage, A., Landreman, M., Langenberg, A., Alonso, A., Beidler, C. D., Beurskens, M., Bitter, M., Bozhenkov, S., Burhenn, R., Delgado-Aparicio, L. F., Fuchert, G., Gates, D. A., Geiger, J., Hill, K. W., Höfel, U., Hirsch, M., Knauer, J., Krämer-Flecken, A., Lazerson, S., Maaßberg, H., Marchuk, O., Marushchenko, N. B., Mikkelsen, D. R., Pasch, E., Satake, S., Smith, H., Svensson, J., Traverso, P., Turkin, Y., Valson, P., Velasco, J. L., Weir, G., Windisch, T., Wolf, R. C., Yokoyama, M., Zhang, D., and W7-X Team: Investigation of the Core Radial Electric Field in Wendelstein 7-X Plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.013 (2016).

Paccagnella, R., Maraschek, M., Zanca, P., Fietz, S., Giannone, L., Gude, A., Igochine, V., Lazaros, A., Marrelli, L., Piovesan, P., Reich, M., Suttrop, W., ASDEX Upgrade Team, and EUROfusion MST1 Team: Entrainment of MHD modes in ASDEX Upgrade using rotating non-axisymmetric perturbation fields. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.027 (2016).

Palermo, F., Biancalani, A., Angioni, C., Zonca, F., Bottino, A., Conway, G. D., and Poli, E.: A new mechanism causing strong decay of geodesic acoustic modes: combined action of phase-mixing and Landau damping. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.046 (2016).

Papp, G., Stahl, A., Drevlak, M., Fülop, T., Lauber, P., and Pokol, G. I.: Towards self-consistent runaway electron modeling. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.173 (2015).

Pasch, E., Beurskens, M., Bozhenkov, S., Fuchert, G., Hirsch, M., Höfel, U., Knauer, J., Kornejew, P., Langenberg, A., Pablant n., N., Wolf, R. C., and W7-X Team: First Results from the Thomson Scattering System at the Stellarator Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.016 (2016).

Pautasso, G., McCarthy, P. J., Fuchs, C., Dux, R., Potzel, S., Papp, G., Sertoli, M., Tardini, G., Lackner, K., Scarabosio, A., Mlynek, A., Giannone, L., and ASDEX Upgrade Team: Generation and suppression of runaway electrons in ASDEX Upgrade disruptions. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.134 (2015).

Pegourie, B., Day, C., Frattolillo, A., Koechl, F., and Lang, P. T.: Physical constraints on the design of the DEMO pellet fueling system. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.076 (2016).

Peterson, B. J., Sano, R., Zhang, D., Feng, Y., Mukai, K., Jakubowski, M., Krychowiak, M., König, R., and Pedersen, T. S.: Detailed design of imaging bolometer fields of view for Wendelstein7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.018 (2016).

- Pinzon, J. R., Blanco, E., Happel, T., Conway, G. D., Estrada, T., Hennequin, P., Stroth, U., and ASDEX Upgrade Team: Modeling of Radial Correlation Doppler Reflectometry response to density turbulence wave number spectra. 12th International Reflectometry Workshop (IRW 12), Forschungszentrum Jülich (2015).
- Pinzon, J. R., Happel, T., Hennequin, P., Blanco, E., Estrada, T., Stroth, U., ASDEX Upgrade Team: O- and X-mode Radial Correlation Doppler Reflectometry in 2D Full Wave Simulations and Experiments. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.052 (2016).
- Piovesan, P., Igochine, V., Liu, Y. Q., Maraschek, M., Marrelli, L., Ryan, D. A., Suttrop, W., Weiland, M., Yadykin, D., Gobbin, M., Terranova, D., Ferraro, N. M., Lanctot, M. J., Bogomolov, A., Classen, I., Dunne, M., Gude, A., and McDermott, R.: High-resolution internal measurements of 3D plasma response for model validation in high- β plasmas. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.144 (2015).
- Piron, C., Felici, F., Kim, D., Rapson, C., Reich, M., Sauter, O., Goodman, T., Treutterer, W., Brand, H. van den, Chapman, I., ASDEX Upgrade Team, Finotti, C., Manduchi, G., Marchiori, G., Marrelli, L., Kudlacek, O., Piovesan, P., Taliercio, C., RFX-mod Team, and EUROfusion MST1 Team: Real-time simulation of internal profiles in the presence of sawteeth using the RAPTOR code and applications to ASDEX Upgrade and RFX-mod. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.145 (2015).
- Polevoi, A. R., Loarte, A., Bilato, R., Bertalot, L., Budny, R. V., Fable, E., Gorelenkova, M., Loughlin, M., and Polunovskiy, E.: Assessment of neutron emission from DD to DT operation of ITER. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.126 (2015).
- Poli, E., Maj, O., Weber, H., Sysoeva, E. V., and Gusakov, E. Z.: Scattering of electromagnetic wave beams from density fluctuations in tokamak plasmas. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.174 (2015).
- Potzel, S., Dunne, M., Dux, R., Guimarais, L., Reimold, F., Scarabosio, A., Wischmeier, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: On the high density in the HFS far SOL at ASDEX Upgrade and its impact on plasma confinement. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.136 (2015).
- Prisiazhniuk, D., Krämer-Flecken, A., Conway, G. D., Happel, T., Manz, P., Simon, P., Dunne, M., Stroth, U., and ASDEX Upgrade Team: Application of Poloidal Correlation Reflectometry to Study Turbulence at ASDEX-Upgrade. 12th International Reflectometry Workshop (IRW 12), Forschungszentrum Jülich (2015).
- Prisiazhniuk, D., Krämer-Flecken, A., Conway, G. D., Lebschy, A., Angioni, C., Happel, T., Stroth, U., Manz, P., and ASDEX Upgrade Team: Characterization of the turbulence during LOC-SOC transition using Poloidal Correlation Reflectometry at ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.036 (2016).
- Pütterich, T., Fable, E., Dux, R., Neu, R., O'Mullane, M. G., and Wenninger, R.: Impurity Limits in a Reactor Grade Fusion Device. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.111 (2015).
- Rack, M., Reiter, D., Feng, Y., Börner, P., and Hasenbeck, F.: A hybrid fluid-kinetic approach for 3D plasma edge transport in He-plasma at Wendelstein 7-X. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.161 (2015).
- Rack, M., Sieglin, B., Eich, T., Liang, Y., Balboa, I., Denner, P., Pearson, J., Wingen, A., and JET Contributors: Influence of resonant magnetic perturbations on transient heat load deposition – a short review. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O2.103 (2015).
- Rahbarnia, K., Andreeva, T., Cardella, A., Carvalho, B. B., Endler, M., Hathiramani, D., Geiger, J., Grulke, O., Lazerson, S., Neuner, U., Svensson, J., Thomsen, H., Werner, A., and W7-X Team: Commissioning of the magnetic diagnostics during the first operation phase at Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.011 (2016).
- Refy, D. I., Solano, E. R., Vianello, N., Zoleznik, S., Dunai, D., Tál, B., Brix, M., Gomes, R., Birkenmeier, G., Wolfrum, E., Lagner, F., Delabie, E., ASDEX Upgrade Team, JET Contributors, and EUROfusion MST1 Team: Comparative analysis of density profile and magnetic signals during the JET

M-mode and ASDEX Upgrade I-phase phenomena. 43rd EPS Conference on Plasma Physics, (. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.023 (2016).

Reimerdes, H., Aho-Mantila, L., Albanese, R., Ambrosino, R., Arter, W., Brezinsek, S., Bufferand, H., Calabro, G., Ciraolo, G., Coster, D., Fernandes, H., Harrison, J., Kaldre, I., Lackner, K., Lielausis, O., Loureiro, J., Lunt, T., Mazzitelli, G., McIntosh, S., Militello, F., Morgan, T., Pelekasis, N., Pelka, G., Pericoli, V., Philipps, V., Subba, F., Tabares, F., Viola, B., Wenninger, R., Zagorski, R., and Zohm, H.: Towards an Assessment of Alternative Divertor Solutions for DEMO. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.117 (2015).

Reimold, F., Bernert, M., Kallenbach, A., Lipschultz, B., Meisl, G., Potzel, S., Reinke, M. L., Wischmeier, M., and Wunderlich, D., EUROfusion MST1 Team, and ASDEX Upgrade Team: The X-point radiation regime in detached H-Modes in full-tungsten ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.118 (2015).

Ricci, P., Morales, J., Nespoli, F., Paruta, P., Riva, F., Wersal, C., Boedo, J. A., Furno, I., Halpern, F. D., Labit, B., Loizu, J., Jolliet, S., Jorge, R., Mosetto, A., Tsui, C., TCV Team, and EUROfusion MST1 Team: Progress in simulating SOL plasma turbulence with the GBS code. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.028 (2016).

Rittich, D., Hopf, C., Geiger, B., Bock, A., Burckhart, A., Mlynek, A., Rapson, C., Ryter, F., Stober, J., Reich, M., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Towards a Better Understanding of Neutral Beam Current Drive and Steady State Operation. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.134 (2016).

Rohde, V., Balden, M., and ASDEX Upgrade Team: Erosion of metal plasma facing components by arcing at the inner divertor baffle of ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.119 (2015).

Ryan, D. A., Liu, Y., Kirk, A., Dunne, M., Li, L., Dudson, B., Piovesan, P., Suttrop, W., Willensdorfer, M., ASDEX Upgrade

Team, and EUROfusion MST1 Team: Parametrisation of optimal RMP coil phase on ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.057 (2016).

Salmi, A., Tala, T., Mantica, P., Järvinen, A., Meneses, L., Mordijk, S., Naulin, V., Juul Rasmussen, J., Svensson, J., Giacomelli, L., Gomes, R., Groth, M., Koskela, T., Maggi, C., Maslov, M., Sips, G., Weisen, H., and JET Contributors: Particle source and edge transport studies in JET H-mode gas puff modulation experiments. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.135 (2015).

Sanchez, E., Monreal, P., Calvo, I., and Kleiber, R.: Relaxation of zonal flows in stellarators: influence of the magnetic configuration. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.172 (2015).

Sanchis, L., Garcia-Munoz, M., Snicker, A., Galdon, J., Rodriguez-Ramos, M., Nocente, M., Viezzier, E., Ayllon-Guerola, J., Garcia-Lopez, J., Rivero, J., Gonzalez, J., Dominguez, A. D., and ASDEX Upgrade Team: 3D orbit simulations of the fast-ion transport induced by externally applied magnetic perturbations with different poloidal spectra. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.056 (2016).

Schießl, B. W., Birkenmeier, G., Nielsen, A. H., Løiten, M., Thrysøe, A. S., Naulin, V., Stroth, U., and ASDEX Upgrade Team: Development of a Synthetic Lithium Beam Diagnostic for the HESEL Turbulence Code and Application to Blob Transport. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.048 (2016).

Schmid, B., Manz, P., Ramisch, M., and Stroth, U.: Investigation of the energy transfer to zonal flows at the stellarator TJ-K. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.160 (2015).

Schneider, P. A., Bustos, A., Hennequin, P., Ryter, F., Bernert, M., Cavedon, M., Dunne, M. G., Fischer, R., Görler, T., Happel, T., Igochine, V., Kurzan, B., McDermott, R., Morel, P., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Isotope effect on confinement unraveled for L-mode in dimensionless p^* scan. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.135 (2016).

- Schubert, M., Plaum, B., Vorbrugg, S., Herrmann, A., Kasperek, W., Monaco, F., Petzold, B., Poli, E., Schütz, H., Stober, J., Wagner, D., and ASDEX Upgrade Team: Enhancing O-2 mode electron cyclotron heating capabilities at ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.026 (2016).
- Senichenkov, I., Kaveeva, E., Rozhansky, V., Sytova, E., Veselova, I., Voskoboinikov, S., and Coster, D.: Role of Electric Field in the Formation of Detached Regime. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P5.191 (2015).
- Sertoli, M., Garcia-Regana, J. M., Odstrcil, T., Angioni, C., Smith, H., Turkin, Y., Cooper, W. A., Bustos, A. de, Vezinet, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Interplay between central ECRH and MHD in mitigating tungsten accumulation in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.129 (2015).
- Shabbir, A., Verdoollaeghe, G., Hornung, G., Kardaun, O. J. W. F., Zohm, H., and JET Contributors: Analysis of the energy losses and waiting times for individual ELMs in the Joint European Torus. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.001 (2016).
- Shao, L. M., Wolfrum, E., Ryter, F., Birkenmeier, G., Laggner, F. M., Viezzier, E., Fischer, R., Willensdorfer, M., Kurzan, B., and ASDEX Upgrade Team: On the role of the edge density profile for the L-H transition power threshold in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.113 (2015).
- Shesterikov, I., Grulke, O., Stenzel, R., and Klinger, T.: Measurements of Plasma Parameters Using a Fast Sweeping Langmuir Probe in the VINETA-II magnetic reconnection experiment. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.123 (2016).
- Silva, C., Hillesheim, J. C., Hidalgo, C., Maggi, C., Meneses, L., Belonohy, E., Testa, D., Tsallas, M., and JET Contributors: Experimental investigation of geodesic acoustic modes on JET using Doppler reflectometry. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O3.114 (2015).
- Silva, F. da, Heuraux, S., Ribeiro, T., and Aguiam, D.: REFMULF: 2D Fullwave FDTD Full Polarization Maxwell Code. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.175 (2015).
- Simon, P., Conway, G. D., Stroth, U., Manz, P., Biancalani, A., and ASDEX Upgrade Team: Structure and properties of geodesic acoustic mode oscillations in ASDEX Upgrade. 12th International Reflectometry Workshop (IRW 12), Forschungszentrum Jülich (2015).
- Solano, E. R., Coffey, I., Huber, A., Henderson, S. S., O'Mullane, M., Casson, F., Summers, H., Pütterich, T., Puiatti, M. E., Carraro, L., Valisa, M., Menmuir, S., Lawson, K., Sertoli, M., Lomanowski, B., Reinke, M., Bernert, M., Drewwelow, P., Maslov, M., Flanagan, J., Sergienko, G., Stamp, M., Brezinsek, S., Meneses, L., Schmuck, S., Boom, J., Giroud, C., Guillemaut, C., de la Luna, E., Baciero, A., and JET Contributors: Characterising W radiation in JET-ILW plasmas. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.005 (2016).
- Sommariva, C., Nardon, E., Fil, A., Beyer, P., Huysmans, G. T. A., Högl, M., van Vugt, D., Sarkimaki, K., and JET Contributors: Simulating runaway electrons during disruptions with test particles in the JOREK code. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P2.006 (2016).
- Stegmeir, A., Coster, D., Ross, A., Maj, O., and Lackner, K.: The field line map approach for simulations of edge/SOL in divertor geometry. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.041 (2016).
- Sytova, E., Senichenkov, I., Kaveeva, E., Rozhansky, V., Veselova, I., Voskoboinikov, S., and Coster, D.: Analysis of impurity momentum balance and flows in the SOL by SOLPS-ITER modelling. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.054 (2016).
- Szepesi, T., Alonso, A., Biedermann, C., Cseh, G., Dinklage, A., Jakubowski, M., Kocsis, G., König, R., Otte, M., Pedersen, T. S., Zoleznik, S., and W7-X Team: Observations with the visible overview video diagnostic system during the first operational campaign of Wendelstein 7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.004 (2016).

Tala, T., Chrystal, C., McDermott, R. M., Pehkonen, S.-P., Salmi, A., Angioni, C., Barnes, M., Duval, B., Giroud, C., Grierson, B., Guttenfelder, W., Ferreira, J., Hillesheim, S., Kaye, S., Mantica, P., Maslov, M., Menmuir, S., Parra, F., Petty, C., Pütterich, T., Rice, J. E., Ryter, F., Solomon, W., Tardini, G., Tsallas, M., Weisen, H., Yoshida, M., JET-EFDA Contributors, ASDEX Upgrade Team, DIII-D Team, NSTX Team, EUROfusion MST1 Team, and ITPA Transport & Confinement Topical Group: Multi-Machine Experiments to Study the Parametric Dependences of Momentum Transport and Intrinsic Torque. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O2.104 (2016).

Tardini, G., Bilato, R., Fischer, R., Snicker, A., Weiland, M., and ASDEX Upgrade Team: Comparative prediction of 2nd harmonic deuterium acceleration by ICRF in ASDEX Upgrade NBI heated discharges. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.025 (2016).

Tardini, G., Fischer, R., Gagnon-Moisan, F., Weiland, M., Zimbal, A., and ASDEX Upgrade Team: Characterisation of a Compact Neutron Spectrometer and unfolded neutron emission spectra in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, (2015).

Thomsen, H., Andreeva, T., Brandt, C., Neuner, U., Rahbarnia, K., Alonso, A., Broszat, T., Endler, M., Geiger, J., Grahl, M., Klinger, T., Laqua, H., Stange, T., Svensson, J., Turkin, Y., Werner, A., and W7-X Team: Status and prospects of the MHD diagnostics at Wendelstein 7-X stellarator. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.010 (2016).

Turnyanskiy, M., Beurskens, M., Burckhart, A., Coda, S., Cecconello, M., Crombe, K., Komm, M., Donne, T., Eich, T., Esposito, B., Felici, F., Garsia-Munoz, M., Hakola, A., Litaudon, X., Martin, P., Mayoral, M.-L., McDonald, D. C., Mlynar, J., Meyer, H., Neu, R., Piovisan, P., Reimerdes, H., Romanelli, F., Scannell, R., and Tudisco, O.: Preparation of exploitation of medium-size tokamaks under European roadmap for the realization of fusion energy. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.049 (2016).

Urano, H., Hobirk, J., Maggi, C. F., Joffrin, E., and JET Contributors: Characterization of electron density based on operational parameters in JET H-mode plasmas with C and ILW.

43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, O4.121 (2016).

Vakulchyk, I., Aleynikov, P., and Marushchenko, N. B.: The wave-mode purity in ECRH: advanced 3D ray-tracing modeling for W7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.021 (2016).

Vanovac, B., Classen, I. G. J., Denk, S., Wolfrum, E., Hözl, M., Lessig, A., Orain, F., Luhmann Jr., N. C., ASDEX Upgrade Team, and EUROfusion MST1 Team: ELM filaments on ASDEX Upgrade: ECEI observations and modelling. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.014 (2016).

Vezinet, D., Igochine, V., Gude, A., Meshcheriakov, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Experimental characterisation of sawtooth crash precursors on ASDEX Upgrade via Soft X-Ray tomography. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.138 (2015).

Vianello, N., Solano, E. R., Delabie, E., Hillesheim, J., Refy, D., Zoleznik, S., Buratti, P., Boom, J., Coelho, R., Figueiredo, A., Lerche, E., Meneses, L., Rimini, F., Sips, A. C. C., Artaserse, G., Belohony, E., and JET Contributors: Experimental characterization of M-Mode in JET tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.133 (2015).

Vicente, J., Carralero, D., Aguiam, D. E., Silva, A., Silva, C., Schneider, P. A., Manso, M. E., Guimaraes, L., Conway, G. D., EUROfusion MST1 Team, and ASDEX Upgrade Team: Relationship between divertor collisionality and filament activity measured with reflectometry at ASDEX Upgrade. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.030 (2016).

Vicente, J., Conway, G. D., Meneses, L., Silva, C., Manso, M. E., ASDEX Upgrade Team, and JET Contributors: Dynamics of filaments in the vicinity of the separatrix during ELM cycles. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.109 (2015).

Viezzer, E., Fable, E., Cavedon, M., Laggner, F., Angioni, C., Dunne, M., Dux, R., Bernert, M., Burckhart, A., McDermott, R.,

Odstrcil, T., Pütterich, T., Ryter, F., Wolfrum, E., ASDEX Upgrade Team, and EUROfusion MST1 Team: Ion heat and momentum transport in the edge pedestal of ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.124 (2015).

Vijvers, W. A. J., Canal, G. P., Duval, B. P., Labit, B., Lipschultz, B., Lunt, T., Nespoli, F., Reimerdes, H., Sheikh, U. A., Theiler, C., Tsui, C., Verhaegh, K. H. A., and TCV Team: Advanced divertor research on the TCV tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P2.150 (2015).

Vlainic, M., Vondracek, P., Mlynar, J., Weinzettl, V., Ficker, O., Varavin, M., Paprok, R., Imrisek, M., Havlicek, J., Panek, R., Noterdaeme, J.-M., and COMPASS Team: Synchrotron Radiation from Runaway Electrons in COMPASS Tokamak. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.108 (2015).

Wagner, F.: Eigenschaften einer Stromversorgung mit intermittierenden Quellen. Vorträge auf der DPG-Frühjahrsstagung in Berlin 2015. 79. DPG-Jahrestagung und DPG-Frühjahrstagung, Arbeitskreis Energie (AKE). (Ed.) H. Bruhns. 138-155 (2015).

Wauters, T., Stange, T., Laqua, H. P., Brakel, R., Marsen, S., Moseev, D., Pedersen, T. S., Volzke, O., Brezinsek, S., Dinklage, A., and W7-X Team: Wall Conditioning by ECRH and GDC at the Wendelstein 7-X Stellarator. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.047 (2016).

Weidl, M. S., Teaca, B., Jenko, F., and Schlickeiser, R.: Charged-particle heating in imbalanced MHD turbulence. Cosmic Rays and the InterStellar Medium (CRISM 2014). Proceedings of Science, 048 (2015).

Weiland, M., Geiger, B., Bilato, R., Jacobsen, A., Salewski, M., Schneider, P. A., Tardini, G., and ASDEX Upgrade Team: Influence of ion cyclotron heating and MHD instabilities on the fast-ion distribution in ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.142 (2015).

Weir, G., Grulke, O., Hartfuss, H., Hirsch, M., Höfel, U., Marushchenko, N. B., Tsuchiya, H., Windisch, T., and W7-X Team: Electron temperature fluctuation measurements in

W7-X: Initial results from OP1.1. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.009 (2016).

Wenninger, R., Kemp, R., Maviglia, F., Zohm, H., Albanese, R., Ambrosino, R., Arbeiter, F., Aubert, J., Bachmann, C., Biel, W., Fable, E., Federici, G., Garcia, J., Loarte, A., Martin, Y., Pütterich, T., Reux, C., Sieglin, B., and Vincenzi, P.: DEMO Exhaust Challenges Beyond ITER. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.110 (2015).

Willensdorfer, M., Suttrop, W., Strumberger, E., Cavedon, M., Classen, I. G. J., Dunne, M., Fietz, S., Fischer, R., Fuchs, C., Kirk, A., Laggner, F., Wolfrum, E., Luhmann, N. C., Vanovac, B., EUROfusion MST1 Team and ASDEX Upgrade Team: Kinetic profiles and plasma response during application of 3D magnetic perturbations fields. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.132 (2015).

Windisch, T., Estrada, T., Hirsch, M., Kasparek, W., Krämer-Flecken, A., Lechte, C., Wolf, S., Xanthopoulos, P., and Klinger, T.: Reflectometry fluctuation diagnostics at Wendelstein 7-X. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.163 (2015).

Wolf, R. C., Ford, O., Reimer, R., Bock, A., Burckhart, A., Dinklage, A., Hobirk, J., Howard, J., Reich, M., and Stober, J.: Motional Stark Effect Measurements of the Local Magnetic Field in High Temperature Fusion Plasmas. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 032 (2015).

Wolfrum, E., Faitsch, M., Fuchert, G., Barrera-Orte, L., Bernert, M., Birkenmeier, G., Carralero, D., Eich, T., Gao, Y., Kurzan, B., Laggner, F. M., Müller, H. W., Potzel, S., Rack, M., Sieglin, B., Sun, H. J., Suttrop, W., and Willensdorfer, M.: Effect of magnetic perturbations on pedestal, SOL and divertor in high collisionality plasmas at ASDEX Upgrade. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.115 (2015).

Wolfrum, E., Lunt, T., Reimold, F., and ASDEX Upgrade Team: Influence of the first wall material on particle fuelling. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.043 (2016).

Yashin, A. Y., Bulanin, V. V., Petrov, A. V., Petrov, M. A., Gusev, V. K., Khromov, N. A., Kurskiv, G. S., Petrov, M. I., Petrov, Y. V., Tolstyakov, S. Y., and Prisyazhnyuk, D. V.: Multi-diagnostic Approach to Geodesic Acoustic Mode Study. 1st EPS Conference on Plasma Diagnostics (ECPD). Proceedings of Science, 175 (2015).

Yu, Q., Günter, S., and Lackner, K.: Numerical study on triggering of neoclassical tearing modes by sawteeth. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.039 (2016).

Yu, Q., Günter, S., and Lackner, K.: Study on sawtooth collapses using two fluid equations. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, O4.132 (2015).

Zarzoso, D., Hornsby, W. A., Casson, F., Poli, E., Peeters, A. G., and Nasr, S.: Impact of rotating magnetic islands on profile flattening and turbulence. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P1.171 (2015).

Zhang, D., Burhenn, R., Buttenschön, B., König, R., Laube, R., Jenszch, H., Giannone, L., Marquardt, M., Thomsen, H., Werner, A., Alonso, A., Biedermann, C., Bozhenkov, S., Brakel, R., Czarnecka, A., Fornal, T., Fuchert, G., Grulke, O., Hirsch, M., Knauer, J., Kubkowska, M., Langenberg, A., Laqua, H. P., Otte, M., Pablant, N., Pasch, E., Rahbarnia, K., Schröder, T., Svensson, J., Wenzel, U., Wurden, G. A., and W7-X Team: Investigation of the Radiative Power Loss in the Limiter Plasmas of W7-X. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.015 (2016).

Zohm, H., Träuble, F. J., Biel, W., Fable, E., Kemp, R., and Wenninger, R.: Where to locate DEMO in a one-step-to-an-FPP strategy. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P4.077 (2016).

Zuin, M., Stevanato, L., Martines, E., Auriemma, F., Momo, B., Cavazzana, R., De Masi, G., Gonzalez, W., Lorenzini, R., Scarin, P., Spagnolo, S., Spolaore, M., Vianello, N., Schneider, W., Cester, D., Nebbia, G., Sajo-Bohus, L., and Viesti, G.: Characterization of Particle Dynamics and Magnetic Reconnection in the RFX-mod Plasmas. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.158 (2015).

Zurro, B., Hollmann, E. M., Baciero, A., Ochando, M. A., Dux, R., McCarthy, K. J., Medina, F., Lopez-Miranda, B., Pastor, I., López-Bruna, D., and TJ-II Team: Transport analysis of different charge/mass impurities injected by laser blow-off in ECRH heated plasmas of TJ-II. 43rd EPS Conference on Plasma Physics. (Eds.) P. Mantica, G. Giruzzi, M. Fajardo, et al. ECA 40A. European Physical Society, Geneva, P1.004 (2016).

Zurro, B., Velasco, J. L., Hollmann, E. M., Baciero, A., Ochando, M. A., Dux, R., McCarthy, K. J., Medina, F., Pastor, I., Hajjar, R. J., Garcia-Regana, J. M., Lopez-Bruna, D., Melnikov, A. V., Eliseev, L. G., HIBP Team, and TJ-II Team: Transport analysis of impurities injected by laser blow-off in ECRH and NBI heated plasmas of TJ-II. 42nd EPS Conference on Plasma Physics, (Eds.) R. Bingham, W. Suttrop, S. Atzeni, et al. ECA 39E. European Physical Society, Geneva, P4.160 (2015).

Patents

Hergenhahn, U.: Improvement of a hemispherical electron spectrometer by measuring the electron time-of-light. Erfindungsmeldung: 22.04.2015. Die Erfindung wurde vom IPP freigegeben, da kein direkter Zusammenhang zur Fusionsforschung besteht.

Hergenhahn, U., and Förstel, M.: Apparat zum Herstellen mikrohydrierter Moleküle einer verdampften Substanz (A source for microhydrated biomolecules). Erfindungsmeldung: 08.12.2014. Die Erfindung wurde aufgrund fehlender wirtschaftlicher Verwertbarkeit vom IPP freigegeben.

Mlynek, A., Ford, O., and Plöckl, B.: Terahertz – Polarimeter. Erfindungsmeldung: 08.12.2014. Die Erfindung wurde vom IPP als in Anspruch genommen. Deutsche Patentanmeldung 10 2015 007 729.5.

Theses

Arredondo Parra, R.: Operation, Commissioning and Installation of a High-Speed Lithium Pellet Injector in the ASDEX Upgrade Reactor. Technische Universität München (2015).

Brinz, J.: Formation and transfer properties of hydrogen isotope blend pellets for core particle fueling in fusion devices. Technische Universität München (2016).

Förster, M.: Untersuchung eines 1,5-dimensionalen Wärme-transportmodells am Plasmarand an Messdaten von ASDEX Upgrade. Ludwig-Maximilians-Universität München (2015).

Fuchs, S.: Untersuchungen zur Unterdrückung Magnetischer Inseln durch ECRH im Tokamak ASDEX Upgrade. Ludwig-Maximilians-Universität München. (2016).

Heiler, A.: Spektroskopische Untersuchungen von Plasmen in einer großflächigen Quelle für negative Wasserstoffionen. Universität Augsburg (2015).

Leuthold, N.: Influence of the Plasma Pedestal Parameters on ELM Mitigation at Low Collisionality at ASDEX Upgrade. Universität Bayreuth (2016).

Mario, I.: IR thermography analysis of the powerful hydrogen beam at ELISE. Universita degli Studi di Padova. (2016).

Maurizio, R.: Beam Property Characterization by Means of Three Beam Diagnostics at BATMAN. Università degli Studi di Padova (2015).

Morel, J.: Probe Measurements with Multi-Pin System in ICRF Plasma Device. Ghent University (2016).

Plank, U.: Untersuchung der temperaturabhängigen Rückhaltung von in Wolframoberflächen implantiertem Stickstoff mittels Röntgenphotoelektronenspektroskopie. Ludwig-Maximilians-Universität München (2016).

Styn, W.: Simulated Annealing as Means of Determining Equilibrium States for Reduced Magnetohydrodynamics. Technische Universität München (2015).

Träuble, F. J.: Entwicklung und Untersuchung eines Stationären Plasmaszenarios mit numerischen Transportrechnungen für ITER, DEMO und ein zukünftiges Fusionskraftwerk. Ludwig-Maximilians-Universität München (2016).

Zeidler, F.: The effect of plasma shape on the performance of a tokamak fusion reactor. Ludwig-Maximilians-Universität München (2015).

PhD-Theses

Bock, A.: Generation and Analysis of Plasmas with Centrally Reduced Helicity in Full-Tungsten ASDEX Upgrade. Ludwig-Maximilians-Universität München. (2016).

Casali, L.: Experimental studies and modelling of high radiation and high density plasmas in the ASDEX Upgrade tokamak. Ludwig-Maximilians-Universität München (2015).

Cole, M. D. J.: Global gyrokinetic and fluid hybrid simulations of tokamaks and stellarators. Ernst-Moritz-Arndt Universität Greifswald. (2016).

Gao, L.: Interaction of Deuterium Plasma with Pre-nitrided Tungsten Surfaces. Ruhr-Universität Bochum (2015).

Hölbe, H.: Control of the magnetic topology and plasma exhaust in the edge region of Wendelstein 7-X: A numerical study. Ernst-Moritz-Arndt-Universität Greifswald (2015).

Meisl, G.: Nitrogen implantation in tungsten and migration in the fusion experiment ASDEX Upgrade. Technische Universität München. (2015).

Penzel, F.: Automated measurement of bolometer line of sight alignment and characteristics for application in ITER. Technische Universität München (2015).

Schröder, T.: Dynamic Structures in Expanding Plasmas. Ernst-Moritz-Arndt-Universität Greifswald (2015).

Shabbir, A.: Pattern recognition in spaces of probability distributions for the analysis of edge-localized modes in tokamaks. Ghent University/Ludwig-Maximilians-Univ. München (2016).

Stegmeir, A.: GRILLIX: A 3D turbulence code for magnetic fusion devices based on a field line map. Technische Universität München (2015).

Stepanov, I.: Ion Cyclotron Range of Frequencies (ICRF) Power Coupling and Plasma Density Profile. Universiteit Gent (2015).

Weidl, M.: Cosmic-ray propagation in simulations of cross-helical plasma turbulence. Ludwig-Maximilians-Universität München. (2015).

Weiland, M.: Influence of RF heating and MHD instabilities on the fast-ion distribution in ASDEX Upgrade. Ludwig-Maximilians-Universität München (2016).

Zacharias, O.: Gyrokinetic Simulations of Tearing Modes. Ernst-Moritz-Arndt-Universität Greifswald. (2015).

Laboratory Reports

Internal IPP Reports

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Bock, A.: Generation and Analysis of Plasmas with Centrally Reduced Helicity in Full-Tungsten ASDEX Upgrade. 146 p. (2016)

IPP 1/358

Boscary, J., Stadler, R., Greuner, H., Smirnow, M., Drescher, N., Böswirth, B., Tretter, J., and Mendelevitch, B.: Entwicklung hochwärmebeständiger Targetelemente für Fusionsreaktoren. 80 p. (2016).

IPP 4/294

Penzel, F.: Automated measurement of bolometer line of sight alignment and characteristics for application in ITER. 152 p. (2015).

IPP 5/135

Stegmeir, A.: GRILLIX: A 3D turbulence code for magnetic fusion devices based on a field line map. 133 p. (2015).

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IPP 17/50

Gao, L.: Interaction of Deuterium Plasma with Pre-nitrided Tungsten Surfaces. 154 p. (2016).

IPP 17/51

Shao, L., Wolfrum, E., Birkenmeier, G., Potzel, S., Bernert, M., Cavedon, M., Conway, G. D., Fischer, R., Laggner, F., Manz, P., Maraschek, M., Mink, F., Willensdorfer, M., and ASDEX Upgrade Team: Oscillating plasma states around the L-H transition at ASDEX Upgrade. 17 p. (2016).

IPP 17/52

Saitoh, H., Horn-Stanja, J., Stenson, E., Hergenhahn, U., Pedersen, T. S., and Stoneking, M. R.: A note on levitation techniques toward construction of a superconducting levitated dipole experiment. 15 p. (2016).

IPP 18/4

Hölbe, H.: Control of the magnetic topology and plasma exhaust in the edge region of Wendelstein 7-X: A numerical study. 121 p. (2016).

Lectures

Aguiam, D. E., Silva, A., Bobkov, V., Carvalho, P. J., Carvalho, P. F., Cavazzana, R., Conway, G. D., D'Arcangelo, O., Fattorini, L., Faugel, H., Fernandes, A., Fünfgelder, H., Goncalves, B., Guimarais, L., De Masi, G., Meneses, L., Noterdaeme, J. M., Pereira, R. C., Rocchi, G., Santos, J., Tuccillo, A. A., Tudisco, O., and ASDEX Upgrade Team: Implementation of the new multichannel X-mode edge density profile reflectometer for the ICRF antenna on ASDEX Upgrade. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Aguiam, D. E., Silva, A., Carvalho, P. J., Carvalho, P. F., Cavazzana, R., Conway, G. D., D'Arcangelo, O., Fattorini, L., Faugel, H., Fernandes, A., Fünfgelder, H., Goncalves, B., Guimarais, L., De Masi, G., Meneses, L., Noterdaeme, J. M., Pereira, R. C., Rocchi, G., Santos, J., Tuccillo, A. A., Tudisco, O., and ASDEX Upgrade Team: X-mode raw data analysis of the new AUG ICRF antenna edge density profile reflectometer. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Ahn, J.-H., Guirlet, R., Garbet, X., Février, O., Lütjens, H., Luciani, J.-F., Odstrcil, T., Sertoli, M., Vezinet, D., and ASDEX Upgrade Team: MHD simulations of impurity transport during sawtooth collapse in ASDEX-Upgrade plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Äkäslompolo, S., Asunta, O., Drevlak, M., Kurki-Suonio, T., Sipilä, S., and W7-X Team: First W7-X simulations with the fast ion orbit following code ASCOT (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Äkäslompolo, S., Kurki-Suonio, T., Tardini, G., Bonheure, G., and ASDEX Upgrade Team: Reverse ASCOT simulation of fusion product activation probe experiment in ASDEX Upgrade tokamak. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Albert, C. G., Heyn, M. F., Kasilov, S. V., Kernbichler, W., Martitsch, A. F., and Runov, A.: Kinetic modeling of 3D equilibria in a tokamak. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Aleddha, R., Cannas, B., Fanni, A., Murari, A., Pau, A., Sias, G., ASDEX Upgrade Team, and JET Contributors: A comparative multivariate analysis of disruption classes between JET and AUG. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Aleynikov, P., and Breizman, B.: Generation of runaway electrons during the thermal quench. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Aleynikov, P., and Breizman, B. N.: Relativistic runaway electrons in the near-threshold electric field. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Aleynikova, K., Huijsmans, G. T. A., and Aleynikov, P.: Linear ideal and resistive MHD stability analysis of post-disruption plasmas with runaway electrons in ITER. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Aleynikova, K., Zocco, A., and Helander, P.: Critical beta of kinetic ballooning modes in simple geometry. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Ali, A., Jakubowski, M., Pedersen, T. S., Rodatos, A., and Greuner, H.: Development of Real Time System Imaging Software for the Protection of Plasma Facing Components (PFCs) in Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Ali, A., Köhn, A., Muñoz, A., Holzhauer, E., Birkenmeier, G., and Ramisch, M.: Experimental and numerical investigations of the energy confinement times in the stellarator TJ-K. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Alimov, V. K., Hatano, Y., Oyaidzu, M., Sugiyama, K., Roth, J., Tokitani, M., and Hayashi, T.: Erosion and surface modification of reduced activation ferritic martensitic steels and iron exposed to deuterium and helium plasmas. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Alonso, J. A., Calvo, I., Garcia-Regana, J. M., Hidalgo, C., McCarthy, K., Ochando, M. A., Pedrosa, M. A., Perfilov, S., Van Milligen, B. P., and Velasco, J. L.: Impurity density variation on flux surfaces in stellarators. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Ameres, J.: Particle in Fourier Discretization of Kinetic Equations. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Ameres, J., Hatzky, R., and Sonnendrücker, E.: A Particle in Fourier Method for Field Aligned Gyrokinetic Models. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Ameres, J., and Sonnendrücker, E.: Error Estimation for Particle Methods in Plasma Physics. (6th Workshop on Theory and Numerics of Kinetic Equations, 2015-06-01 to 2015-06-03, Saarbrücken).

Ameres, J., and Sonnendrücker, E.: Particle in Fourier Discretization of Kinetic Equations. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Andreeva, T., Bozhenkov, S., Bykov, V., Endler, M., Fellinger, J., Geiger, J., Grahl, M., Klinger, T., and Thomsen, H.: Influence of deviations in the coil geometry on Wendelstein 7-X plasma equilibrium properties. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Andreeva, T., Bozhenkov, S., Bykov, V., Endler, M., Fellinger, J., and Lazerson, S. A.: Influence of the Trim Coils Operation on Wendelstein 7-X Magnetic Field. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Andreeva, T., Brakel, R., Kißlinger, J., and Köppen, M.: Estimation of Wendelstein 7-X magnetic field perturbation due to permeable materials. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Angioni, C.: Impurity Transport in Tokamaks. (6th Asia Pacific Transport Working Group (APTWG) International Conference, 2016-06-21 to 2016-06-25, Seoul).

Angioni, C.: Status of validation of fuel particle/electron transport models in conditions relevant to ITER DT scenarios. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Angioni, C., Belli, E. A., Bilato, R., Casson, F. J., Mantica, P., Odstrcil, T., Pütterich, T., Valisa, M., ASDEX Upgrade Team, and JET Contributors: The physics of heavy impurity accumulation and accumulation avoidance illuminated by recent progress in theory and modelling. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Angioni, C., Casson, F. J., Mantica, P., Odstrcil, T., Pütterich, T., Sertoli, M., Valisa, M., Belli, E. A., Bilato, R., Fable, E.,

Giroud, C., Stober, J. K., Viezzer, E., ASDEX Upgrade Team, and JET Contributors: Predicted dependence of turbulent tungsten diffusion on electron and ion heat fluxes and comparative analysis of the impact of turbulence on tungsten transport in AUG and JET H-mode plasmas. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Antar, G., Goniche, M., Ekedahl, A., Colas, L., Bobkov, V., Noterdaeme, J.-M., Herrmann, A., Rohde, V., Tore Supra Team, and ASDEX Upgrade Team: Controlling Turbulence by RF Waves. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Arden, N., Eixenberger, H., Rott, M., Schandruš, M., Sutrop, W., and Teschke, M.: The DC-link of the inverter system BUSSARD for ASDEX Upgrade in vessel saddle coils. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Arefiev, A., Du Toit, E. J., Köhn, A., Holzhauer, E., Shevchenko, V., and Vann, R. G. L.: Kinetic simulations of X-B and O-X-B mode conversion. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Arefiev, A., Du Toit, E. J., Köhn, A., Holzhauer, E., Shevchenko, V. F., and Vann, R. G. L.: Kinetic simulations of X-B and O-X-B mode conversion. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Arkhipov, A., Scarabosio, A., Haas, G., Mackel, F., Koll, J., Meister, H., Roman, G., Paz, O., Seyvet, F., Terron, S., and Andrew, P.: Status of the development of diagnostic pressure gauges for the operation in ITER. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Arredondo Parra, R., Cardella, A., Lang, P. T., Juan, R. M., Neu, R., and Plöckl, B.: High-speed lithium pellet injector commissioning in ASDEX Upgrade to investigate impact of Li in an all-metal wall tokamak. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Arredondo Parra, R., Oberkofler, M., Schmid, K., Weghorn, A., and Neu, R.: Construction and characterization of a new high current ion source for research of impact of hydrogen irradiation on wall materials for use in nuclear fusion reactors. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Ashikawa, N., Sugiyama, K., Manhard, A., Balden, M., and Jacob, W.: Effects of Surface Modifications on Deuterium Retention in F82H and EUROFER Exposed to Low Energy Deuterium Plasmas. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Astfalk, P., Görler, T., and Jenko, F.: Reconsideration of pressure anisotropy thresholds in the solar wind assuming bi-kappa distributions. (2015 AGU Fall Meeting, 2015-12-14 to 2015-12-18, San Francisco, CA).

Astfalk, P., Jenko, F., Görler, T., and Califano, F.: Vlasov-hybrid simulations of firehose-unstable plasmas. (DPG Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Atanasiu, C. V., Zakharov, L. E., Lackner, K., Hödl, M., Strumberger, E., and Nicolici, S.: Simulation of surface currents excited by plasma wall-touching kink and vertical modes in tokamak. (International Symposium on Fundamentals of Electrical Engineering 2016 (ISFEE 2016), 2016-06-30 to 2016-07-02, Bucharest).

Atanasiu, C. V., Zakharov, L. E., Lackner, K., Hödl, M., Strumberger, E., and Nicolici, S.: Simulation of surface currents excited by plasma wall-touching kink and vertical modes in tokamak. (The Joint Meeting on Quantum Fields and Nonlinear Phenomena, 2016-03-09 to 2016-03-13, Sinaia).

Aumayr, F., Berger, B. M., Stadlmayr, R., Meisl, G., Čekada, M., Sugiyama, K., Oberkofler, M., and Schwarz-Selinger, T.: Transient effects during erosion of WN and FeW films by deuterium ions studied with the quartz crystal microbalance technique. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Ayllon-Guerola, J., Gonzalez-Martin, J., Garcia-Munoz, M., Rivero-Rodriguez, J., Herrmann, A., Vorbrugg, S., Leitensstern, P., Zoleznik, S., Galdon, J., Garcia Lopez, J., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Dominguez, A. D., Kocan, M., Gunn, J. P., Garcia-Vallejo, D., Dominguez-Abascal, J., and ASDEX Upgrade Team: A Fast Feedback Controlled Magnetic Drive for the ASDEX Upgrade Fast-Ion Loss Detectors. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Aza, E., Schiesko, L., Wimmer, C., Wunderlich, D., Fantz, U., and NNBI Team: Beam characterization at BATMAN for variation of the Cs evaporation asymmetry and comparing two driver geometries. (5th International Symposium on

Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Bachmann, C., Arbeiter, F., Boccaccini, L., Coleman, M., Federici, G., and You, J.-H.: Issues and strategies for DEMO in-vessel component integration. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Bader, A., Kobayashi, M., Schmitz, O., Feng, Y., and Hegna, C. C.: Helium Transport and Exhaust on LHD with EMC3-EIRENE. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Bader, A., Noterdaeme, J.-M., and EUROfusion WPHCD Team: Integrating a distributed antenna in DEMO: requirements and challenges. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Bader, A., Schmitz, O., Kobayashi, M., Effenberg, F., Hegna, C. C., Ida, K., Yoshinuma, M., and Feng, Y.: Edge impurity transport in the presence of magnetic islands with EMC3-EIRENE. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Balden, M., Elgeti, S., Zibrov, M., Bystrov, K., and Morgan, T. W.: Temperature effect on the surface morphology, D retention and erosion of EUROFER exposed to low-energy high-flux D plasma. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Balden, M., Herrmann, A., Matern, G., Rohde, V., and ASDEX Upgrade Team: Cracking of AUG bulk tungsten tiles after sustained exposure. (22nd ITPA Scrape-Off-Layer & Divertor TG Meeting, 2016-01-25 to 2016-01-28, Rome).

Balden, M., Rohde, V., Rudakov, D., Ashikawa, N., ASDEX Upgrade Team, DIII-D Team, and LHD Experiment Group: Comparison of Chemical Composition and Morphology of Dust Particles from Various Fusion Devices. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Baldwin, M. J., Schwarz-Selinger, T., and Doerner, R. P.: D retention in Be exposed to fusion relevant mixed species D₂-He plasma. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Baldzuhn, J., Bosch, H.-S., Grote, H., Volzke, O., and Wegeiner, L.: The stellarator Wendelstein 7-X: vacuum technology,

vacuum leak search, system commissioning. (80. Jahrestagung der DPG und DPG-Frühjahrstagung, 2016-03-06 to 2016-03-11, Regensburg).

Baldzuhn, J., Ford, O., Richert, T., and W7-X Team: Planned Active Spectroscopy in the Neutral Beam Injectors of W7-X. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Baldzuhn, J., Köppen, M., and W7-X Team: Numerical Simulation of the Active Beam Spectroscopy on W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Banon Navarro, A., Told, D., Jenko, F., Görler, T., Happel, T., and ASDEX Upgrade Team: Turbulence in ASDEX Upgrade: Can gyrokinetic simulations match the fluctuation measurements? (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Barbisan, M., Baltador, C., Zaniol, B., Cavenago, M., Fantz, U., Pasqualotto, R., Serianni, G., and Wunderlich, D.: First hydrogen operation of NIO1: Characterization of the source plasma by means of an optical emission spectroscopy diagnostic. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Barbisan, M., Fantz, U., and Wunderlich, D.: Influence of the magnetic filter field topology on the beam divergence at the ELISE test facility. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Barbui, T., Krychowiak, M., König, R., Schmitz, O., Munoz Burgos, J. M., Schweer, B., Terra, A., and W7-X Team: Feasibility of line-ratio spectroscopy on helium and neon as edge diagnostic tool for Wendelstein 7-X. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Barrett, T. R., Ellwood, G., Perez, G., Kovari, M., Fursdon, M., Domptail, F., Kirk, S., Boccaccini, L., and You, J.-H.: Plasma facing components for the European DEMO: advances in engineering designs. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Barrett, T., McIntosh, S., Fursdon, M., Hancock, D., Domptail, F., Kirk, S., Ellwood, G., Pérez, G., Kovari, M., Zheng, S., Porton, M., Boccaccini, L., You, J.-H., Bachmann, C., Reiser, J., Rieth, M., Visca, E., Mazzone, G., Arbeiter, F., Domalapally, P. K., and Entler, S.: Progress in the Engineering Design and Assessment of the European DEMO First Wall and Divertor Plasma Facing Components.

(12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Bauer, J., Jacob, W., Schwarz-Selinger, T., Balden, M., and Schmid, K.: Deuterium Implantation into Tungsten at Low Temperature. (13th International Workshop on Hydrogen Isotopes in Fusion Reactor Materials, 2016-06-06 to 2016-06-08, Milan).

Bauer, J., Schwarz-Selinger, T., and Schmid, K.: Hydrogen Isotope Exchange in Tungsten within the Implantation Zone at Low Temperature. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Bauer, J., Schwarz-Selinger, T., Balden, M., and Schmid, K.: Deuterium Implantation into Tungsten at Low Temperature. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Bauer, J., Schwarz-Selinger, T., Schmid, K., Toussaint, U. von, and Jacob, W.: Investigation of Dynamic Effects of Deuterium in Tungsten by TDS and NRA. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Bauer, J., Schwarz-Selinger, T., Schmid, K., Toussaint, U. von, and Jacob, W.: Measurements and Modelling of Hydrogen Dynamics in Tungsten. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Becoulet, M., Orain, F., Morales, J., Garbet, X., Passeron, C., Huijsmans, G. T. A., Pamela, S., Cahyna, P., and Hözl, M.: Mechanism of Edge Localized Modes Mitigation by Resonant Magnetic Perturbations. (7th IAEA Technical Meeting on Theory of Plasma Instabilities, 2015-03-04 to 2015-03-06, Frascati).

Behler, K., Martinov, S., Lunt, T., Lohs, A., Merkel, R., Drube, R., Eixenberger, H., and ASDEX Upgrade Team: New Software Tools for ASDEX Upgrade Machine and Diagnostic Introspection and Visualization. (10th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research, 2015-04-20 to 2015-04-24, Ahmedabad, Gujarat).

Beidler, C. D., Feng, Y., Geiger, J., Maaßberg, H., Marushchenko, N. B., and Turkin, Y.: Challenges Posed by High-Performance Steady-State W7-X Plasmas. (20th International

Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Belonohy, E. E., Balshaw, N., Blatchford, P., Camp, P., Cric, D., Emery, S., Felton, R., Gee, S., Graham, B., Haupt, T., Hotchin, S., Jones, G., Jones, T., Keenan, T., Knipe, S., McAdams, R., Rimini, F., Sips, A., Warren, R., and Zastrow, K.-D.: Technical rehearsal of DT operation at JET. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Ben Yaala, M., Marot, L., Steiner, R., Oberkofler, M., De Temmerman, G., and Meyer, E.: Ammonia sticking on metallic surfaces. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Berger, B. M., Stadlmayr, R., Blöch, D., Sugiyama, K., Schwarz-Selinger, T., and Aumayr, F.: Erosion of Fe-W model system under deuterium ion impact. (27th International Conference on Atomic Collisions in Solids (ICACS-27), 2016-07-24 to 2016-07-29, Lanzhou).

Berger, B. M., Stadlmayr, R., Meisl, G., Cekada, M., Sugiyama, K., Oberkofler, M., Schwarz-Selinger, T., and Aumayr, F.: Transient effects during erosion of WN and FeW films by deuterium ions studied with a quartz crystal microbalance technique. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Berger, B. M., Stadlmayr, R., Oberkofler, M., Sugiyama, K., Schwarz-Selinger, T., and Aumayr, F.: Erosion of Fe-W model systems by D ions for different angles of incidence. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Bergmann, A.: Effect of islands and rotation on neoclassical tungsten impurity transport. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bernert, M., Reimold, F., Dux, R., Eich, T., Huber, A., Kallenbach, A., Lipschultz, B., Wischmeier, M., EUROfusion MST1 Team, and ASDEX Upgrade Team: High radiation scenarios in pronounced detached divertor conditions at ASDEX Upgrade. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Bernert, M., Reimold, F., Dux, R., Eich, T., Kallenbach, A., Lipschultz, B., Wischmeier, M., and ASDEX Upgrade Team: High radiation scenarios with radiation inside the confined region at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Bernert, M., Reimold, F., Kallenbach, A., Lipschultz, B., Dux, R., Wischmeier, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Power exhaust by impurity seeding in fusion reactors. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Bernert, M., Wischmeier, M., Huber, A., Lowry, C., Reimold, F., Brezinsek, S., Dux, R., Eich, T., Kallenbach, A., Lipschultz, B., Maggi, C., Wiesen, S., JET Contributors, EUROfusion MST1 Team, and ASDEX Upgrade Team: Power exhaust by SOL and pedestal radiation at ASDEX Upgrade and JET (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Beurskens, M., Angioni, C., Beidler, C., Dinklage, A., Fuchert, G., Hirsch, M., Pütterich, T., and Wolf, R. C.: Energy and Particle Core Transport in Tokamaks and Stellarators compared. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Beurskens, M., Dunne, M. G., Frassinetti, L., Cavedon, M., Fischer, R., Laggner, F. M., McDermott, R. M., Tardini, G., Viezzer, E., Wolfrum, E., and ASDEX Upgrade Team: The role of Carbon on the H-mode confinement in ASDEX Upgrade with a metal wall. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Biancalani, A., Bottino, A., Lauber, P., Scott, B. D., Mishchenko, A., Könies, A., Di Troia, C., and Zonca, F.: Non-perturbative nonlinear interplay of Alfvén modes and energetic ions. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Biancalani, A., Bottino, A., Lauber, P., Scott, B., and Zonca, F.: Nonlinear interplay of Alfvén instabilities and energetic particles in tokamaks. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Biedermann, C., Koenig, R., Jakubowski, M. W., Pilopp, D., and Pedersen, T. S.: Visual and infrared imaging diagnostics at Wendelstein 7-X stellarator in the first operational phase. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Biel, W., Albanese, R., Ambrosino, R., Ariola, M., Cecconello, M., Duran, I., Dux, R., Finotti, C., Franke, T., Giacomelli, L., Giannone, L., Kallenbach, A., Malaquias, A., Marchuk, O., Marchiori, G., De Masi, G., Mazon, D.,

Meister, H., Meyer, K., Mlynek, A., Pironti, A., Rohde, V., Sergienko, G., Shawish, S. E., Silva, A., Sozzi, C., Tokar, M., Treutterer, W., Wenninger, R., and Zohm, H.: Controlling a DEMO reactor with a sparse set of diagnostics. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Biel, W., Ariola, M., Ceccanello, M., Duran, I., Franke, T., Kallenbach, A., Marchuk, O., Mazon, D., Meister, H., Orsitto, F., Silva, A., Wenninger, R., Zagar, K., and Zohm, H.: Diagnostics concept development for a future demonstration fusion reactor. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Biel, W., Beckers, M., Kemp, R., Wenninger, R., and Zohm, H.: Systems code studies on the optimisation of design parameters for a DEMO tokamak reactor. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Bilato, R., Belmondo, V., Brambilla, M., Maj, O., and Poli, E.: Progress on the ICRF orbit-averaged quasilinear operator of TORIC full-wave code. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bilato, R., Bertelli, N., Brambilla, M., Dumont, R., Jaeger, E. F., Johnson, T., Lerche, E., Sauter, O., Van Eester, D., and Villard, L.: Status of the benchmark activity of ICRF full-wave codes within EUROfusion WPCD and beyond. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Birkenmeier, G., Cavedon, M., Conway, G. D., Manz, P., Fuchert, G., Laggner, F. M., Happel, T., Medvedeva, A., Nikolaeva, V., Prisiazhniuk, D., Shao, L. M., Maraschek, M., Pütterich, T., Ryter, F., Willensdorfer, M., Wolfrum, E., Stroth, U., Zohm, H., and ASDEX Upgrade Team: The magnetic structure of the I-phase at ASDEX Upgrade. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Birkenmeier, G., Cavedon, M., Conway, G. D., Manz, P., Fuchert, G., Laggner, F. M., Happel, T., Medvedeva, A., Nikolaeva, V., Prisyazhnyuk, D., Shao, L. M., Pütterich, T., Ryter, F., Willensdorfer, M., Wolfrum, E., Stroth, U., Zohm, H., and ASDEX Upgrade Team: The I-phase and its relation to other phenomena at AUG. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Birkenmeier, G., Manz, P., Cavedon, M., Fuchert, G., Laggner, F. M., Conway, G. D., Happel, T., Medvedeva, A., Nikolaeva, V., Prisyazhnyuk, D., Pütterich, T., Willensdorfer, M., Wolfrum, E., Stroth, U., and ASDEX Upgrade Team:

Characterisation of Pulsations Close to the L-H Transition in AUG. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Blackwell, B. D., Haskey, S. R., Howard, J., Glass, F. J., Pretty, D. G., Nührenberg, C., Könies, A., Cole, M., Hole, M. J., Bertram, J., and Siewald, B.: Fluctuations in the Alfvén Range of Frequencies in the H-1NF Heliac. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Blackwell, B. D., Michael, C. A., Haskey, S. R., Thorman, A., Glass, F. J., Pretty, D. G., Nührenberg, C., Könies, A., Cole, M., Hole, M. J., Moiseenko, V., Seiwald, B., and Howard, J.: Recent results from the H-1 heliac on MHD activity, fluctuations and RF propagation. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Blanken, T. C., Felici, F., Rapson, C. J., TCV Team, and ASDEX Upgrade Team: Particle density modeling for real-time density profile reconstruction and fringe jump detection on TCV and ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bobkov, V., Aguiam, D., Bilato, R., Brezinsek, S., Colas, L., Faugel, H., Fünfgelder, H., Herrmann, A., Jacquot, J., Kallenbach, A., Milanesio, D., Maggiora, R., Neu, R., Noterdaeme, J.-M., Ochoukov, R., Potzel, S., Pütterich, T., Silva, A., Tierens, W., Tuccilo, A., Tudisco, O., Wang, Y., Yang, Q., Zhang, W., ASDEX Upgrade Team, and EUROfusion MST1 Team: ICRF heating in ASDEX Upgrade with W wall. (International Conference and School on Plasma Physics and Controlled Fusion, 2016-09-12 to 2016-09-15, Kharkov).

Bobkov, V., Aguiam, D., Bilato, R., Brezinsek, S., Colas, L., Faugel, H., Fünfgelder, H., Herrmann, A., Jacquot, J., Kallenbach, A., Milanesio, D., Maggiora, R., Neu, R., Noterdaeme, J.-M., Ochoukov, R., Potzel, S., Pütterich, T., Silva, A., Tierens, W., Tuccilo, A., Tudisco, O., Wang, Y., Yang, Q., Zhang, W., ASDEX Upgrade Team, and EUROfusion MST1 Team: Making ICRF power compatible with a high-Z wall in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bobkov, V., Aguiam, D., Borodin, D., Borodkina, I., Brezinsek, S., Colas, L., Czarnecka, A., Durodie, F., Dux, R., Faugel, H., Fünfgelder, H., Goniche, M., Hobirk, J., Herrmann, A., Jacquot, J., Jacquet, P., Kallenbach, A., Krivska, A., Klepper, C. C., Lerche, E., Milanesio, D., Maggiora, R., Monakhov, I., Neu, R., Noterdaeme, J.-M., Ochoukov, R., Pütterich, T., Silva, A., Tuccilo, A., Tudisco, O., Van Eester, D., Zhang, W., ASDEX Upgrade Team, EUROfusion MST1 Team, and JET Contributors: Progress in reducing ICRF-specific

impurity release in ASDEX Upgrade and JET. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Bobkov, V., and ASDEX Upgrade Team: Progress in controlling ICRF-edge interactions in ASDEX Upgrade. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Bobyr, N. P., Spitsyn, A. V., Mayer, M., Gasparyan, Y. M., Efimov, V. S., Golubeva, A. V., and Chernov, V. M.: Hydrogen and deuterium retention in the V-4Cr-4Ti alloy. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Bock, A., Fable, E., Fischer, R., Reich, M., Rittich, D., Stober, J., Bernert, M., Burckhart, A., Dunne, M., Geiger, B., Giannone, L., Kappatou, A., McDermott, R., Mlynek, A., Tardini, G., and ASDEX Upgrade Team: Non-Inductive Improved H-mode Operation in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bock, A., Stober, J., Fischer, R., Fable, E., Reich, M., and ASDEX Upgrade Team: Confinement and stability of plasmas with externally driven steady-state elevated q-profiles. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Bogomolov, A. V., Classen, I. G. J., Boom, J., Donne, A. J. H., Wolfrum, E., Dunne, M., Sutrop, W., Luhmann Jr., N. C., and ASDEX Upgrade Team: Evolution of ELM signatures related to application of RMP coils and nitrogen seeding. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Bolgert, P., Drevlak, M., Lazerson, S., Gates, D., and White, R.: Optimizing Stellarators for Energetic Particle Confinement using BEAMS3D. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Bonanomi, N., Mantica, P., Angioni, C., Camenen, Y., Citrin, J., Giroud, C., Lerche, E., Manas, P., Pamela, S., Sozzi, C., Tsalas, M., Van Eester, D., Taylor, D., and JET Contributors: Light impurities in JET plasmas: transport mechanisms and effects on thermal transport. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bonanomi, N., Mantica, P., Angioni, C., Camenen, Y., Citrin, J., Giroud, C., Manas, P., Lerche, E., Sozzi, C., Tsalas, M., Van Eester, D., and JET Contributors: Analysis and GK model-

ling of light impurities in JET L-mode plasmas with ILW. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Bonanomi, N., Mantica, P., Angioni, C., Camenen, Y., Citrin, J., Giroud, C., Manas, P., Lerche, E., Sozzi, C., Tsalas, M., Van Eester, D., and JET Contributors: Light impurity transport in JET plasmas. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Bonanomi, N., Mantica, P., Citrin, J., Görler, T., and JET Contributors: Role of small-scale turbulence and multi-scale interactions in electron heat transport in JET. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Bonnin, X., Dekeyser, W., Pitts, R., Coster, D., Voskoboinikov, S., and Wiesen, S.: Presentation of the new SOLPS-ITER code package for tokamak plasma edge modelling. (15th International Workshop on Plasma Edge Theory in Fusion Devices (PET15), 2015-09-09 to 2015-09-11, Nara).

Borchardt, M., Drevlak, M., Kemnitz, B., Kleiber, A., Kleiber, R., Könies, A., and Riemann, J.: Energieversorgung der Zukunft: Potentiale und Hürden. (Fortbildung für Lehrerinnen und Lehrer, 2016-08-31, Greifswald).

Borchardt, M., Drevlak, M., Kemnitz, B., Kleiber, A., Könies, A., and Riemann, J.: Energieversorgung der Zukunft: Potentiale und Hürden. (Fortbildung für Lehrerinnen und Lehrer, 2016-04-12, Hamburg).

Borchardt, M., Drevlak, M., and Riemann, J.: Energieversorgung der Zukunft: Potentiale und Hürden. (Fortbildung für Lehrerinnen und Lehrer, 07/02/2015, Berlin).

Borodkina, I., Borodin, D., Brezinsek, S., Kirschner, A., Tsvetkov, I. V., Kurnaev, V. A., Bobkov, V., Klepper, C. C., Lasa, A., Guillemaut, C., Jacquet, P., Stamp, M. F., Giroud, C., and JET Contributors: An analytical expression for ion velocities at the wall including the sheath electric field and surface biasing for erosion modeling at JET ILW. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Boscary, J., Friedrich, T., Greuner, H., Schulmeyer, W., Stadler, R., Mendelevitch, B., and Junghanns, P.: Summary of the production of the Wendelstein 7-X divertor target elements. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Boscary, J., Lumsdaine, A., Greuner, H., Clark, E., Bös-wirth, B., McGinnis, D., Lore, J., Tretter, J., and Ekici, K.: Prototypes of the High Heat Flux Scraper Element of Wendelstein 7-X. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Bosch, H.-S., and W7-X Team: Erste Ergebnisse an Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Böttger, L. G., and Grulke, O.: Phase Contrast Imaging Diagnostic for Wendelstein 7-X. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Böttger, L.-G., and Grulke, O.: Phase Contrast Imaging Diagnostic for the Wendelstein 7-X Stellarator. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Bottino, A.: Global electromagnetic Monte Carlo finite element simulations. (Gyrokinetic Particle Simulation: A Symposium in Honor of Wei-li Lee, 2016-07-18 to 2016-07-22, Irvine, CA).

Bowden, G. W., Könies, A., and Hole, M. J.: Computation of continuum damping of Alfvén eigenmodes in fully three-dimensional geometry with multiple-mode coupling. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Bozhenkov, S. A., Fuchert, G., Beurskens, M., Ford, O. P., Geiger, J., Hirsch, M., Höfel, U., Jakubowski, M. W., Knauer, J., Kornejew, P., Langenberg, A., Laqua, H. P., Maaßberg, H., Marushchenko, N. B., Moseev, D., Pablant, N., Pasch, E., Rahbarnia, K., Stange, T., Svensson, J., Trimino Mora, H., Valson, P., Zhang, D., Wolf, R. C., and W7-X Team: Power Balance Analysis of Wendelstein 7-X Plasmas Using Profile Diagnostics. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bozhenkov, S., Pasch, E., Kurzan, B., Stoneking, M. R., Svensson, J., and Wolf, R. C.: Bayesian model for temperature and density evaluation from W7-X Thomson scattering. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Braeuer, T., Mueller, J., Otte, M., and John, A.: Metrology Support of Flux Surface Diagnostic Installation. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Brakel, R.: Vorbereitung für den ersten Plasmabetrieb von Wendelstein 7-X. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Brand, H. van den, Bongers, W. A., Kasparek, W., Doelman, N., Giannone, L., Stober, J., Wagner, D., Baar, M. R. de, Westerhof, E., and ASDEX Upgrade Team: Combined Electron Cyclotron Emission and Heating for the Suppression of Neoclassical Tearing Modes in Fusion Plasmas. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Brandt, C., Broszat, T., Franz, P., Schülke, M., Sieber, T., Thomsen, H., Weißflog, S., and Marquardt, M.: Implementation of the soft X-ray multi-camera tomography diagnostic in the Wendelstein 7-X stellarator. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Brandt, C., Marchuk, O., Pospieszczyk, A., and Dickheuer, S.: Emission of Fast Non-Maxwellian Hydrogen Atoms in Low-Density Laboratory Plasma. (19th International Conference on Atomic Processes in Plasmas, 2016-04-04 to 2016-04-08, Paris).

Braune, H., Erckmann, V., Hollmann, F., Kasparek, W., Laqua, H. P., Lechte, C., Marsen, S., Noke, F., Purps, F., Reintrog, A., Schlüter, K.-H., Schneider, N., Schulz, T., Stange, T., Uhren, P., W7-X ECRH Team at IPP, W7-X ECRH Team at IGVP, and W7-X ECRH Team at KIT: Reliable and safe simultaneous operation of the W7-X gyrotrons. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Braune, H., Erckmann, V., Laqua, H. P., Marsen, S., Noke, F., Purps, F., Schneider, N., Schulz, T., Stange, T., Uhren, P., W7-X ECRH Team at IPP Greifswald, W7-X ECRH Team at IGVP Stuttgart, and W7-X ECRH Team at KIT Karlsruhe: W7-X ECRH Plant – Control System Design Features. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Bravenec, R., Citrin, J., Mantica, P., Garcia, J., Pueschel, M. J., Görler, T., Barnes, M., Candy, J., Belli, E., and Staebler, G.: Benchmarking of the Gyrokinetic Microstability Codes GENE, GS2, and GYRO over a Range of Plasma Parameters. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Breizman, B. N., and Aleynikov, P.: Production and damping of runaway electrons in a tokamak. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Breton, S., Casson, F. J., Bourdelle, C., Angioni, C., Belli, E., Camenen, Y., Citrin, J., Garbet, X., Sarazin, Y., and JET Contributors: Efficient prediction of poloidal asymmetries impact on heavy impurity neoclassical transport. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Brezinsek, S., Hakola, A., Greuner, H., Kallenbach, A., Oberkofler, M., De Temmerman, G., Douai, D., Böswirth, B., Balden, M., Brida, D., Caniello, R., Carralero, D., Elgeti, S., Krieger, K., Mayer, H., Meisl, G., Potzel, S., Rohde, V., Siegl, B., Terra, A., Neu, R., Linsmeier, C., and EUROfusion MST1 Team: Surface modification of He pre-exposed tungsten samples by He plasma impact in the divertor manipulator of ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Brida, D., Lunt, T., Wischmeier, M., and ASDEX Upgrade Team: Investigation of momentum loss mechanisms in the divertor region of ASDEX Upgrade with EMC3-Eirene. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Brida, D., Lunt, T., Wischmeier, M., Birkenmeier, G., Cahyna, P., Carralero, D., Faitsch, M., Feng, Y., Siegl, B., Willensdorfer, M., Wolfrum, E., ASDEX Upgrade Team, and EUROfusion MST1 Team: First EMC3-Eirene simulations of an ASDEX Upgrade discharge with Magnetic Perturbations including plasma screening effects. (597th Wilhelm und Else Heraeus Seminar "Stochasticity in Fusion Plasmas," 2015-09-10 to 2015-09-12, Bad Honnef).

Brida, D., Lunt, T., Wischmeier, M., Birkenmeier, G., Cahyna, P., Faitsch, M., Feng, Y., Fischer, R., Kurzan, B., Schubert, M., Siegl, B., Suttrop, W., Wolfrum, E., and ASDEX Upgrade Team: Determination of the Stochastic Layer Width Induced by Magnetic Perturbations via Heat Pulse Experiments in ASDEX Upgrade. (DPG-Frühjahrsstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Brida, D., Lunt, T., Wischmeier, M., Birkenmeier, G., Cahyna, P., Faitsch, M., Feng, Y., Kurzan, B., Schubert, M., Siegl, B., Suttrop, W., Wolfrum, E., and ASDEX Upgrade Team: Determination of the Stochastic Layer Properties Induced by Magnetic Perturbations via Heat Pulse Experiments in ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Brida, D., Lunt, T., Wischmeier, M., Birkenmeier, G., Carralero, D., Faitsch, M., Kurzan, B., Scarabosio, A., Siegl, B.,

Wolfrum, E., and ASDEX Upgrade Team: Impurity transport in ASDEX Upgrade with magnetic perturbations. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Briefi, S., Fink, D., Mattei, S., Lettry, J., and Fantz, U.: Determination of discharge parameters via OES at the Linac4 H⁻ ion source. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Briefi, S., Fink, D., Mattei, S., Lettry, J., and Fantz, U.: Determination of plasma parameters via optical emission spectroscopy at CERN's Linac4 H⁻ ion source. (IPAB2016 (Intense and Powerful Accelerator Beams for Industrial and Energy Application), 2016-03-14 to 2016-03-16, Legnaro).

Briefi, S., Mattei, S., Lettry, J., and Fantz, U.: Determination of the cusp field on the plasma parameters of the Linac4 H⁻ ion source. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Briefi, S., Rauner, D., and Fantz, U.: Heavy particle temperatures in low pressure N₂/H₂ discharges determined via OES. (68th Annual Gaseous Electronics Conference (GEC 68) / 9th International Conference on Reactive Plasmas (ICRP 9) / 33rd Symposium on Plasma Processing (SPP 33), 2015-10-12 to 2015-10-16, Honolulu).

Briefi, S., Zielke, D., and Fantz, U.: Relevanz der dissoziativen Rekombination von positiven Wasserstoffionen für die Balmer-Strahlung in Niederdruck H₂-Entladungen. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Briguglio, S., Wang, X., and Schneller, M.: Nonlinear dynamics of Alfvén modes in Tokamak plasmas: an investigation of saturation mechanisms based on Hamiltonian mapping techniques. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Bruhn, C., McDermott, R. M., Dux, R., Angioni, C., Bobkov, V., Cavedon, M., Kappatou, A., Lebschy, A., Pütterich, T., Viezz, E., and ASDEX Upgrade Team: Low-Z impurity transport studies using CXRS at ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Bruhn, C., McDermott, R., Dux, R., Angioni, C., Bobkov, V., Kappatou, A., Lebschy, A., Pütterich, T., Viezz, E., and ASDEX Upgrade Team: Low-Z impurity transport studies using CXRS at ASDEX Upgrade. (DPG-Frühjahrstagung

der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Brünnner, B., Grulke, O., and Klinger, T.: Current sheet formation during driven magnetic reconnection. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Bucher, E., Gspan, C., Höschen, T., Berger, C., Hofer, F., and Sitte, W.: Chromium and silicon poisoning of the IT-SOFC cathode material $\text{La}_{0.6}\text{Sr}^{0.4}\text{CoO}_{3-\delta}$ at 800 °C. (2016 E-MRS Spring Meeting, 2016-05-02 to 2016-05-06, Lille).

Bucher, E., Schrödl, N., Gspan, C., Höschen, T., Hofer, F., and Sitte, W.: Chromium and silicon poisoning of $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ IT-SOFC cathodes at 800 °C. (12th European SOFC & SOE Forum 2016 (International Conference on Solid Oxide Fuel Cell and Electrolyser), 2016-07-05 to 2016-07-08, Lucerne).

Bulanin, V. V., Gusev, V. K., Khromov, N. A., Kurskiev, G. S., Patrov, M. I., Petrov, A. V., Petrov, Y. V., Prisyazhnyuk, D. V., Tolstyakov, S. Y., and Yashin, A. Y.: Multi-diagnostic approach to geodesic acoustic mode study. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Bungartz, H.-J., Görler, T., Jarema, D., Jenko, F., Neckel, T., and Told, D.: Computational Grids Adapted to the Background Distribution Function for Eulerian Gyrokinetic Simulations. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Buratti, P., Baruzzo, M., Challis, C. D., Frigione, D., Garcia, J., Giovannozzi, E., Hender, T. C., Hobirk, J., Joffrin, E., Mailloux, J., Pucella, G., and JET Contributors: MHD in JET Hybrid Plasmas with the ITER Like Wall. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Burckhart, A., Ford, O., Bock, A., Reich, M., Rittich, D., Wolf, R., and ASDEX Upgrade Team: Design and Commissioning of the new Imaging Motional Stark Effect Diagnostic at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Buttenschön, B., Burhenn, R., Thomsen, H., Biel, W., Assmann, J., Hollfeld, K.-P., and W7-X Team: Spectroscopic Impurity Survey in Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Buttenschön, B., Burhenn, R., Thomsen, H., Biel, W., Assmann, J., and W7-X Team: Spectroscopic impurity survey in

the first operation phase of Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Buttenschön, B., Fahrenkamp, N., and Grulke, O.: PROMETHEUS-A: A helicon plasma source for future wake-field accelerators. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Buzi, L., De Temmerman, G., Unterberg, B., Schwarz-Selinger, T., Dittmar, T., Linsmeier, C., Matveev, D., Rasinski, M., Kreter, A., and Van Oost, G.: An extended survey on the influence of particle flux and material microstructure on surface modifications of tungsten and deuterium retention. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Bykov, V., Fellinger, J., Schauer, F., Carls, A., Köppen, M., Eeten, P. van, Andreeva, T., and Bosch, H.-S.: Numerical Modelling at the Transition from W7-X Construction to Operation. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Bykov, V., Zhu, J., Carls, A., Fellinger, J., Eeten, P. van, Bosch, H.-S., Wegener, L., and W7-X Team: Engineering Challenges of W7-X: Improvement of Numerical Modelling and Mechanical Monitoring after Commissioning and First Phase of Operation. (22nd Topical Meeting on the Technology of Fusion Energy (TOFE 2016), 2016-08-21 to 2016-08-25, Philadelphia, PA).

Calabro, G., Albanese, R., Ambrosino, R., Ariola, M., Crisanti, F., De Tommasi, G., Luo, Z. P., Maviglia, F., Pironti, A., Ryutov, D., Villone, F., Viola, B., Wiesen, S., Wischmeier, M., Xiao, B. J., EAST Team, and JET Contributors: Divertor configuration with two nearby poloidal field nulls: modelling and experiments for EAST and JET tokamaks. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Caldini, C.: A Hybrid Particle In Cell method using Hermite-Bézier and B-Splines Finite Elements method. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Calvo, A., Ordás, N., Iturriza, I., Koch, F., Greuner, H., Pintusuk, G., Litnovsky, A., Rasinski, M., and Garcia-Rosales, C.: Manufacturing of Self-passivating Tungsten Alloys for Nuclear Fusion Application. (Spanish Material Congress, 2016-06-08 to 2016-06-10, Gijon).

Calvo, A., Ordás, N., Iturriza, I., Pastor, J. Y., Tejado, E., Koch, F., Greuner, H., Pintsuk, G., Litnovsky, A., Sarbu, C., and García-Rosales, C.: Manufacturing and testing of self-passivating tungsten alloys of different composition. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Camenen, Y., Angioni, C., Bortolon, A., Duval, B. P., Fable, E., McDermott, R. M., Hornsby, W. A., Peeters, A. G., and Rice, J.: Intrinsic rotation, where do we stand? (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Carls, A., Grahl, M., Fellinger, J., Eeten, P. van, Kallmeyer, J., Schmidt, F., Bykov, V., and Egorov, K.: A structural integrity monitoring tool for Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Carpanese, F., Biancalani, A., Köhn, A., and Maj, O.: Using IPF-FDMC full wave code as a synthetic reflectometer for studying micro-instabilities computed by ORB5. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Carralero, D., Madsen, J., Artene, S. A., Birkenmeier, G., Costea, S., Eich, T., Fuchert, G., Laggner, F., Naulin, V., Manz, P., Müller, H. W., Sun, H. J., Vianello, N., Wolfrum, E., EUROfusion MST1 Team, and ASDEX Upgrade Team: A study on the density shoulder formation of H-mode plasmas. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Carralero, D., Sun, H. J., Müller, H. W., Groth, M., Komm, M., Adamek, J., Aho-Mantila, L., Birkenmeier, G., Brix, M., Marsen, S., Stroth, U., Vianello, N., Wischmeier, M., Wolfrum, E., ASDEX Upgrade Team, COMPASS Team, and JET Contributors: Towards a general scaling of the Scrape-off Layer density width. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Carvalho, I., Wilson, D., Keenan, T., Felton, R., Belonohy, E., Banks, J., Omolayo, S., and Sips, A. C. C.: Operational aspects of the JET Tritium Introduction Modules. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Cavedon, M., Pütterich, T., Viezz, E., Birkenmeier, G., Happel, T., Laggner, F. M., Prisyazhnyuk, D. V., Ryter, F., Stroth, U., and ASDEX Upgrade Team: Radial electric field dynamics on ASDEX Upgrade and comparison with neoclassical theory. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Cavedon, M., Pütterich, T., Viezz, E., Birkenmeier, G., Happel, T., Laggner, F., Ryter, F., Stroth, U., and ASDEX Upgrade Team: Radial electric field dynamics at the L-H and H-L transition on ASDEX Upgrade. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Cavedon, M., Pütterich, T., Viezz, E., Birkenmeier, G., Happel, T., Laggner, F., Ryter, F., Stroth, U., and ASDEX Upgrade Team: Study of the edge radial electric field during the L-H transition at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Cavedon, M., Pütterich, T., Viezz, E., Birkenmeier, G., Happel, T., Ryter, F., Stroth, U., and ASDEX Upgrade Team: Study of the edge radial electric field during the L-H transition. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Cerri, S. S., Califano, F., Jenko, F., and Pegoraro, F.: Dissipation processes in turbulent plasmas: Hybrid Vlasov-Maxwell simulations. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Chankin, A. V., Corrigan, G., Delabie, E., Harting, D., Maggi, C., and Meyer, H.: Possible mechanisms for the impact of the SOL and divertor on the H-mode power threshold. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Chankin, A. V., Delabie, E., Corrigan, G., Maggi, C. F., and Meyer, H., and JET Contributors: Possible influence of near SOL plasma on the H-mode power threshold. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Chapman, I. T., Luna, E. de la, Lang, P. T., Liang, Y., Denner, P., Frigione, D., Huijsmans, G. T. A., Kocsis, G., Lennholm, M., Rimini, F. G., and JET Contributors: Understanding and utilising the control of ELMs in JET (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Chapman, S. C., Dendy, R. O., Lang, P. T., Watkins, N. W., Romanelli, M., Todd, T. N., and JET Contributors: Distinguishing between naturally occurring and pellet-precipitated edge localised modes in JET tokamak plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Chapman, S. C., Dendy, R. O., Lang, P. T., Watkins, N. W., Todd, T. N., Calderon, F. A., and JET Contributors: The global build-up to intrinsic ELM bursts and comparison

with pellet precipitated ELMs seen in JET. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Chauvin, D., Jakubowski, M., Jenzsch, H., Gamradt, M., Lorenz, A., Fellinger, J., Hathiramani, D., Krychowiak, M., König, R., Pedersen, T. S., Pallier, G., Dufour, T., Fappani, D., and Lippmann, U.: Design and manufacturing progress of IRVIS endoscopes prototypes for W7-X divertor temperature monitoring. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Chernyshova, M., Malinowski, K., Czarski, T., Wojenski, A., Vezinet, D., Pozniak, K. T., Kasprowicz, G., Zabolotny, W., Mazon, D., Jardin, A., Herrmann, A., Kowalska-Strzeciwiłk, E., Krawczyk, R., Kolasinski, P., and Zienkiewicz, P.: GEM-based SXR plasma diagnostics development: preliminary tests at ASDEX Upgrade. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Chikada, T., Horikoshi, S., Mochizuki, J., Koch, F., Yabuucchi, K., and Oya, Y.: Deuterium permeation behavior in iron-irradiated erbium oxide coating. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Chorley, J. C., Brunner, K. J., Dipper, N. A., Freethy, S. J., Sharples, R. M., Shevchenko, V. F., Thomas, D. A., and Vann, R. G. L.: GPU-based data analysis for Synthetic Aperture Microwave Imaging. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Citarella, R., Lepore, M., Giannella, V., and Fellinger, J.: Global-local FEM-DBEM approach to assess crack growth in magnet system of Wendelstein 7-X under load spectrum. (8th International Conference on Finite Differences, Finite Elements, Finite Volumes, Boundary Elements (F-and-B'15), 2015-11-07 to 2015-11-09, Rome).

Citrin, J., Bourdelle, C., Angioni, C., Baiocchi, B., Breton, S., Camenen, Y., Casson, F. J., Felici, F., Garbet, X., Garzotti, L., Gürcan, O., Imbeaux, F., Koechl, F., Redondo, J., Strand, P., Szepesi, G., and JET Contributors: Multi-channel flux-driven quasilinear turbulent transport prediction over many confinement times. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Citrin, J., Bourdelle, C., Casson, F., Angioni, C., Breton, S., Felici, F., Garbet, X., Gürcan, O., Garzotti, L., Koechl, F., Imbeaux, F., Redondo, J., Strand, P., Szepesi, G., and JET

Contributors: Flux-driven multi-channel simulations with the quasilinear gyrokinetic tokamak transport model QuaLiKiz. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Clark, E., Lumsdaine, A., Boscary, J., Ekici, K., Harris, J., McGinnis, G. D., Lore, J., and Tretter, J.: Two-Phase Thermal-Fluid Analysis of the W7-X High Heat Flux Divertor Scraper Element. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Classen, I., Vanovac, B., Domier, C., Luhmann, N., Bogomolov, A., Suttrop, W., Tobias, B., and ASDEX Upgrade Team: 3D ELM fluctuation measurements with the new dual array ECE-Imaging diagnostic on ASDEX Upgrade. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Coelho, R., Faugeras, B., Giovannozzi, E., McCarthy, P., Zwingmann, W., Suchkov, E. P., Zaitsev, F. S., JET Contributors, ASDEX Upgrade Team, and EUROfusion MST1 Team: Integrated equilibrium reconstruction and MHD stability analysis of tokamak plasmas in the EU-IM platform. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Coelho, R., Merle, A., Vlad, G., Yadikin, D., Owsiaik, M., Sauter, O., Chapman, I., Dunne, M., Buratti, P., JET Contributors, ASDEX Upgrade Team, and ITM-TF Contributors: Scientific workflows for MHD stability chain analysis of tokamak plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Coenen, J. W., Antusch, S., Aumann, M., Biel, W., Du, J., Engels, J., Heuer, S., Houben, A., Hoeschen, T., Jasper, B., Koch, F., Linke, J., Litnovsky, A., Mao, Y., Neu, R., Pintsuk, G., Riesch, J., Rasinski, M., Reiser, J., Rieth, M., Unterberg, B., Weber, T., Wegener, T., You, J.-H., and Linsmeier, C.: Materials for DEMO and Reactor Applications – Boundary Conditions and New Concepts. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Coenen, J. W., Engels, J., Heuer, S., Houben, A., Jasper, B., Litnovsky, A., Mao, Y., Weber, T., Wegener, T., Biel, W., Hoeschen, T., Koch, F., Neu, R., Riesch, J., Rasinski, M., Unterberg, B., You, J.-H., and Linsmeier, C.: Materials for DEMO and reactor applications – Boundary condition and new concepts. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Coenen, J. W., Houben, A., Litnovsky, A., Weber, T., Engels, J., Jasper, B., Heuer, S., Wegener, T., Biel, W., Hoeschen, T,

Koch, F., Neu, R., Riesch, J., Rasinski, M., Unterberg, B., and Linsmeier, C.: New Material Developments for Applications in Fusion Reactors. (12th International Conference on the Mechanical Behavior of Materials (ICM 12), 2015-05-10 to 2015-05-14, Karlsruhe).

Coenen, J. W., Jasper, B., Riesch, J., Du, J., Höschen, T., Koch, F., You, J.-H., and Linsmeier, C.: The Powder Metallurgical Route to Tungsten-Fiber Reinforced Tungsten. (International Conference on Advances in Composite Materials and Structures (CACMS), 2015-04-13 to 2015-04-15, Istanbul).

Coenen, J. W., Riesch, J., Demkowicz, M., Matveev, D., Neu, R., Unterberg, B., and Linsmeier, C.: Plasma Wall Interaction of Advanced Materials. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Coenen, J. W., Riesch, J., You, J.-H., Riethm, M., Pintsuk, G., Gietl, H., Jasper, B., Klein, F., Litnovsky, A., Mao, Y., Müller, A., von, Sistla, S., Wegener, T., Broeckmann, C., Linsmeier, C., and Neu, R.: Advanced Materials for a Damage Resilient Divertor Concept for DEMO. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Colas, L., Lu, L., Křivska, A., and Jacquot, J.: Radio-frequency sheath voltages and slow wave electric field spatial structure. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Cole, M. D. J., Biancalani, A., Bottino, A., Kleiber, R., Könies, A., and Mishchenko, A.: Nonlinear electromagnetic gyrokinetic simulations of global modes in fusion plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Cole, M. D. J., Mishchenko, A., Borchardt, M., Hatzky, R., Kleiber, R., and Könies, A.: Electromagnetic gyrokinetic simulations of Alfvén eigenmodes in stellarators. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Cole, M. D. J., Mishchenko, A., Borchardt, M., Hatzky, R., Kleiber, R., and Könies, A.: Progress in non-linear electromagnetic gyrokinetic simulations of Toroidal Alfvén eigenmodes. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Cole, M. D. J., Mishchenko, A., and Könies, A.: Fluid-electron, gyrokinetic-ion simulations of global modes in magnetic

fusion devices. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Conway, G. D., Lechte, C., Fochi, A., and ASDEX Upgrade Team: Assessment of Doppler reflectometry accuracy using full-wave codes with comparison to beam-tracing and analytic expressions. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Cosfeld, J., Hasenbeck, F., Rack, M., and Feng, Y.: Analytische Lösungen des vereinfachten EMC3 Models. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Costea, S., Carralero, D., Madsen, J., Vianello, N., Naulin, V., Nielsen, A. H., Rasmussen, J. J., Schrittwieser, R., Ionita, C., Spolaore, M., Kovacic, J., ASDEX Upgrade Team, and EUROfusion MST1 Team: Inter-ELM filamentary studies during density “shoulder” formation in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Costea, S., Rasmussen, J. J., Vianello, N., Müller, H. W., Naulin, V., Schrittwieser, R., Nielsen, A. H., Madsen, J., Ionita, C., Spolaore, M., Carralero, D., Mehlmann, F., and ASDEX Upgrade Team: Investigation on radial transport of poloidal momentum in the SOL of AUG during the L-I-H transition. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Coster, D. P.: Using reduced physics models to explore the edge operating space of fusion reactors. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Coster, D.P.: Reduced physics models in SOLPS for reactor scoping studies. (15th International Workshop on Plasma Edge Theory in Fusion Devices (PET15), 2015-09-09 to 2015-09-11, Nara).

Creely, A. J., White, A. E., Edlund, E. M., Howard, N. T., Hubbard, A. E., and Ryter, F.: Perturbative Thermal Transport Studies on Alcator C-Mod and ASDEX Upgrade. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Crescenzi, F., Bachmann, C., Richou, M., Rocella, S., Visca, E., and You, J. H.: Advances of the Design Study of ITER-like divertor target for DEMO. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Cristofaro, S., Friedl, R., and Fantz, U.: Comparison between measured and modeled densities of negative hydrogen ions in an ICP discharge. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Cristofaro, S., Friedl, R., and Fantz, U.: Simultaneous measurements of work function and H⁻ density including caesiation of a converter surface. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Croci, G., Nocente, M., Wunderlich, D., Bonomo, F., Fantz, U., Heinemann, B., Kraus, W., Pasqualotto, R., Tardocchi, M., and Gorini, G.: Experimental investigation of beam-target neutron emission at the ELISE neutral beam test facility. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Crombe, K., D'Inca, R., Jacquot, J., Ochoukov, R., Usoltseva, M., Kostic, A., Louche, F., Van Eester, D., Nikiforov, A., Moreno, J., Heuraux, S., Devaux, S., Moritz, J., Faudot, E., Fünfgelder, H., Faugel, H., and Noterdaeme, J.-M.: Characterization of the RF plasma on ISHTAR. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Crombe, K., Devaux, S., D'Inca, R., Faudot, E., Faugel, H., Fischer, F., Fünfgelder, H., Heuraux, S., Jacquot, J., Louche, F., Moritz, J., Ochoukov, R., Siegl, G., Tripsky, M., Van Eester, D., Wauters, T., and Noterdaeme, J.-M.: Studies of RF sheaths and diagnostics on ISHTAR. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Czarnecka, A., Jablonski, S., Kaczmarczyk, J., Kubkowska, M., Ryć, L., Weller, A., Biedermann, C., and König, R.: Simulation of PHA soft x-ray spectra expected from W7-X. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

D'Arcangelo, O., Tudisco, O., Ceccuzzi, S., Fünfgelder, H., Rocchi, G., Conway, G. D., Masi, G. D., Fattorini, L., Friesen, J., Meneses, L., Noterdaeme, J.-M., Siegl, G., Silva, A., Simonetto, A., Tuccillo, A. A., Vierle, T., Zammuto, I., ASDEX Upgrade Team, and FTU Team.: Realization, installation and testing of the multichannel reflectometer's transmission lines at ICRF antenna in Asdex Upgrade. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

D'Inca, R., Crombé, K., Fischer, F., Fünfgelder, H., Faugel, H., Heuraux, S., Moritz, J., Devaux, S., Faudot, E., Jacquot, J.,

Louche, F., Ochoukov, R., Siegl, G., Van Eester, D., and Noterdaeme, J.-M.: Development and first operations of the ISHTAR test facility. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Day, C., Butler, B., Cismundi, F., Demange, D., Giegerich, T., and Plöckl, B.: Structured development of the inner fuel cycle systems of an EU DEMO. (IAEA 1st Technical Meeting on Safety, Design and Technology of Fusion Powerplants, 2016-05-03 to 2016-05-05, Vienna).

Day, C., Butler, B., Giegerich, T., Lang, P., and Meszaros, B.: Consequences of the Technology Survey and Gap Analysis on the European R&D Programme of the DEMO inner Fuel Cycle. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Day, C., Butler, B., Giegerich, T., Plöckl, B., Cismundi, F., Frattolillo, A., Gethins, M., Hanke, S., Hollingsworth, A., Hörstensmeyer, Y., Igitkhanov, Y., Lang, P. T., Lawless, R., Luo, X., Medley, S., Moreno, C., Naris, S., Ocho, S., Pegourie, B., Peters, B., Röllig, M., Santucci, A., Sartori, E., Scannapiego, M., Shaw, R., Sonato, P., Strobel, H., Tosti, S., Varoutis, S., Walker, R., and Whittaker, D.: Current status of the EU DEMO Project on the inner fuel cycle systems. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

De Masi, G., Spagnolo, S., Arnichand, H., Hillesheim, J., Meneses, L., Meyer, H., Delabie, E., and Maggi, C.: Characterization of edge fluctuations on JET during the LH transition studies. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Delabie, E., Maggi, C. F., Meyer, H., Biewer, T. M., Bourdelle, C., Brix, M., Carvalho, I., Chankin, A. V., Drewelow, P., Guillemaut, C., Hawkes, N. C., Hillesheim, J., Keeling, D., Meigs, A., Meneses, L., Rimini, F., Sips, G., Solano, E., and JET Contributors: The relation between divertor conditions and the L-H threshold on JET. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Demers, D. R., Crowley, T. P., Fimognari, P. J., Birkenmeier, G., Herrmann, A., Stroth, U., and ASDEX Upgrade Team: A Heavy Ion Beam Probe for ASDEX Upgrade. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Denk, S. S., Fischer, R., Decker, J., Maj, O., Nielsen, S. K., Pedersen, M. S., Willensdorfer, M., Vanovac, B., Brand, H.

van den Westerhof, E., Poli, E., Stober, J., Stroth, U., Suttrop, W., and ASDEX Upgrade Team: Non-thermal electron momentum distributions during electron cyclotron current drive measured with electron cyclotron emission. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Denk, S. S., Fischer, R., Poli, E., Willensdorfer, M., Maj, O., Stober, J., Stroth, U., Suttrop, W., and ASDEX Upgrade Team: Interpretation of the Electron Cyclotron Emission of hot ASDEX Upgrade plasmas at optically thin frequencies. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Denk, S., Fischer, R., Stroth, U., Maj, O., Poli, E., Westerhof, E., Willensdorfer, M., Stober, J., and ASDEX Upgrade Team: Non-thermal electron energy distributions in microwave heated plasmas measured with electron cyclotron emission. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Dhard, C. P., Nagel, M., Bau, H., Raatz, S., Meyer, U., and Rummel, T.: Refrigerator operation during commissioning and first plasma operations of Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Dhard, C. P., Nagel, M., Raatz, S., Bau, H., Meyer, U., Risse, K., Rummel, T., and W7-X Team: Wendelstein 7-X: first experience with the cryogenic system. (European Cryogenic Days, Academia Meets Industry on Developments in Cryogenics, 2016-06-09 to 2016-06-10, Geneva).

Di Siena, A., Doerk, H., Görler, T., and Poli, E.: Non-Maxwellian background effects in gyrokinetic simulations with GENE. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Di Siena, A., Görler, T., Doerk, H., Citrin, J., Johnson, T., Schneider, M., and Poli, E.: Non-Maxwellian background effects in gyrokinetic simulations with GENE. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Dibon, M., Herrmann, A., Mank, K., Mertens, V., Neu, R., Pautasso, G., and Plöckl, B.: High Speed Gas Valve for Massive Gas Injection in Tokamaks. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Dibon, M., Herrmann, A., Mank, K., Mertens, V., Neu, R., Pautasso, G., and Plöckl, B.: New piezoelectric valve for disruption mitigation studies at ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Dibon, M., Herrmann, A., Mank, K., Mertens, V., Neu, R., Pautasso, G., and Plöckl, B.: Piezoelectric Valve for Massive Gas Injection in ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Dibon, M., Pautasso, G., Kruezi, U., Jachmich, S., Sozzi, C., and ASDEX Upgrade Team: Conceptual Design of DMS for JT-60SA: Introductory talk. (3rd WPSA Project Planning Meeting, 2016-02-15 to 2016-02-17, Napoli).

Dibon, M., Pautasso, G., Neu, R., Isayama, A., Kruezi, U., Jachmich, S., Sozzi, C., Day, C., Scannapiego, M., and ASDEX Upgrade Team: Conceptual Design of DMS for JT-60SA: Introductory talk. (Research Coordination Meeting (RCM 5), 2016-05-16 to 2016-05-20, Naka).

Dif-Pradalier, G., Hornung, G., Ghendrih, P., Clairet, F., Diamond, P. H., Sarazin, Y., Vermare, L., Abiteboul, J., Cartier-Michaud, T., Ehrlacher, C., Estève, D., Garbet, X., Grandgirard, V., Gurcan, O. D., Hennequin, P., Kosuga, Y., Latu, G., Morel, P., Norscini, C., and Sabot, R.: The Plasma Staircase: Turbulence Self-Regulation through Spontaneous Flow Patterning. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Dif-Pradalier, G., Hornung, G., Ghendrih, P., Clairet, F., Diamond, P. H., Sarazin, Y., Vermare, L., Abiteboul, J., Cartier-Michaud, T., Ehrlacher, C., Estève, D., Garbet, X., Grandgirard, V., Gurcan, O. D., Hennequin, P., Kosuga, Y., Latu, G., Morel, P., Norscini, C., and Sabot, R.: The Plasma Staircase: Turbulence Self-Regulation through Spontaneous Flow Patterning. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Dingfelder, B., Kleiber, R., Könies, A., and Sonnendrücker, E.: A discontinuous Galerkin method for the approximation of eigenvalues of a non coercive elliptic operator. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Dinklage, A.: Integrated Data Analysis – Probabilistic Data Fusion in Fusion. (Summer School of Plasma Diagnostics: PhDiaFusion. Soft X-ray Diagnostics for Fusion Plasma, 2015-06-16 to 2015-06-20, Bezmlechowa).

Dinklage, A., Alonso, A., Andreeva, T., Baldzuhn, J., Beurskens, M., Bosch, H.-S., Beidler, C. D., Biedermann, C., Blanco, E., Bozhenkov, S., Brakel, R., Burhenn, R., Buttenschön, B., Cappa, A., Czarnecka, A., Endler, M., Estrada, T., Fornal, T., Fuchert, G., Geiger, J., Grulke, O., Harris, J. H., Hartmann, D. A., Hirsch, M., Höfel, U., Jakubowski, M., Klinger, T., Klose, S., Knauer, J., Kocsis, G., König, R., Kornejew, P., Krämer-Flecken, A., Krawczyk, N., Krychowiak, M., Kubkowska, M., Ksiazek, I., Langenberg, A., Laqua, H. P., Lazerson, S., Liang, Y., Maaßberg, H., Marushchenko, N. B., Marsen, S., Moncada, V., Moseev, D., Naujoks, D., Otte, M., Pablant, N., Pasch, E., Pisano, F., Rahbarnia, K., Schröder, T., Stange, T., Stephey, L., Szepesi, T., Pedersen, T. S., Trimino Mora, H., Thomsen, H., Tsuchiya, H., Turkin, Y., Wauters, T., Wenzel, U., Werner, A., Wolf, R., Wurden, G. A., Zhang, D., and W7-X Team: Confinement in Wendelstein 7-X Limiter Plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Dinklage, A., and W7-X Team: First Experimental Campaigns of W7-X. (International Conference on Research and Applications of Plasmas (PLASMA 2015), 2015-09-07 to 2015-09-11, Warsaw).

Dinklage, A., and W7-X Team: First Experiments on Wendelstein 7-X. (13th Kudowa Summer School “Towards Fusion Energy,” 2016-06-13 to 2016-06-17, Kudowa-Zdroj).

Dinklage, A., and W7-X Team: Wendelstein 7-X in the European Roadmap to Fusion Electricity. (7th Hungarian Plasma Physics and Fusion Technology Workshop (HPPW 2015), 2015-04-08 to 2015-04-10, Tengelic).

Dinklage, A., and W7-X Team: Wendelstein 7-X in the European Roadmap to Fusion Electricity (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Doerk, H., Bock, A., Challis, C., Citrin, J., Fable, E., Garcia, J., Goerler, T., Jenko, F., Stober, J., ASDEX Upgrade Team, and JET Contributors: Progress in comparing electromagnetic gyrokinetic turbulence simulations with experiments. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Doerk, H., Challis, C., Citrin, J., Dunne, M., Garcia, J., Görler, T., Jenko, F., Ryter, F., Schneider, P. A., Wolfrum, E., ASDEX Upgrade Team, and JET Contributors.: Turbulence stabilization due to high beta and fast ions in high-performance plasmas at ASDEX Upgrade and JET. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Doerk, H., Challis, C., Citrin, J., Dunne, M., Jenko, F., Garcia, J., Ryter, F., Schneider, P. A., Wolfrum, E., ASDEX Upgrade Team, and JET Contributors: Turbulence stabilization due to high beta and fast ions in high-performance plasmas at ASDEX Upgrade and JET. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Doerk, H., Challis, C., Citrin, J., Dunne, M., Jenko, F., Garcia, J., Ryter, F., Schneider, P. A., Wolfrum, E., ASDEX Upgrade Team, and JET Contributors: Turbulence stabilization due to high beta and fast ions in high-performance plasmas at ASDEX Upgrade and JET. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Doerner, R. P., Baldwin, M. J., Simmonds, M., Yu, J. H., Buzi, L., and Schwarz-Selinger, T.: Measuring the helium content in plasma-exposed tungsten. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Douai, D., Kogut, D., Baldwin, M. J., Doerner, R. P., Sinelnikov, D., Mamedovd, N., Kurnaev, V., Becker, H.-W., and Schwarz-Selinger, T.: Experiment and modelling of hydrogen isotope exchange in beryllium layers as mean of T inventory control in ITER. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Douai, D., Wauters, T., Rohde, V., Garcia-Carrasco, A., Bobkov, V., Brezinsek, S., Carralero, D., Cavazzana, R., Hakola, A., Lyssoivan, A., Möller, S., Ochoukov, R., Peterson, P., Schneider, P., Spolaore, M., EUROfusion MST1 Team, and ASDEX Upgrade Team: Changeover from Deuterium to Helium with Ion Cyclotron Wall Conditioning and diverted plasmas in ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Drenik, A., Alegre, D., Beldishevski, M., Brezinsek, S., de Castro, A., Dittmar, T., Hakola, A., Heesterman, P., Krieger, K., Kruezi, U., Loarer, T., Meisl, G., Mozetic, M., Neu, R., Oberkofler, M., Panjan, M., Pitts, R., Primc, G., Rohde, V., De Temmerman, G., Zaplotnik, R., ASDEX Upgrade Team, and JET Contributors: Formation of ammonia in N₂ seeded discharges at AUG and JET. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Drenik, A., Alegre, D., Biscan, M., Brezinsek, S., de Castro, A., Dittmar, T., Hakola, A., Krieger, K., Kruezi, U., Meisl, G., Mozetic, M., Oberkofler, M., Panjan, M., Primc, G., Rohde, V., Zaplotnik, R., ASDEX Upgrade Team, and JET Contributors: Formation of ammonia during N₂-seeded discharges in tokamaks with metallic plasma-facing surfaces. (International

Conference and School on Plasma Physics and Controlled Fusion, 2016-09-12 to 2016-09-15, Kharkov).

Drenik, A., Alegre, D., Brezinsek, S., Castro, A. de, Dittmar, T., Hakola, A., Krieger, K., Kruezi, U., Meisl, G., Mozetic, M., Oberkofler, M., Panjan, M., Primc, G., Rohde, V., Zaplotnik, R., ASDEX Upgrade Team, and JET Contributors: Study of plasma-wall interaction in fusion devices by residual gas analysis. (16th Joint Vacuum Conference (JVC-16), 14th European Vacuum Conference (EVC-14) and 23th Croatian Slovenian International Scientific Meeting on Vacuum Science and Technique, 2016-06-06 to 2016-06-10, Portoroz).

Drenik, A., Oberkofler, M., Alegre, D., Kruezi, U., Brezinsek, S., Wischmeier, M., Giroud, C., Mozetič, M., and JET Contributors: Sub-divertor Neutral Gas Analysis at JET with the ITER-like Wall. (24th International Conference Nuclear Energy for New Europe (NENE 2015), 2015-09-14 to 2015-09-17, Portoroz).

Drevlak, M., Beidler, C. D., Geiger, J., Helander, P., Mikhailov, M., and Turkin, Y.: Stellarator Optimisation with ROSE. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Drevlak, M., Kasilov, S. V., Kernbichler, W., Mikhailov, M. I., Nemov, V. V., Nührenberg, J., and Zille, R.: Free-boundary equilibria for stellarator configurations given by their boundary geometry. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Drewelow, P., Kruezi, U., Koslowski, H. R., Lehnens, M., Matthews, G. F., and JET Contributors: Measurement of radiation asymmetries during disruption mitigation at JET. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Drews, P., Liang, Y., Neubauer, O., Denner, P., Rack, M., Liu, S., Wang, N., Nicolai, D., Krämer-Flecken, A., Grulke, O., Charl, A., Schweer, B., Gao, Y., Hollfeld, K., Satheeswaran, G., Sandri, N., Höschen, D., and W7-X Team: Measurement of the plasma edge profiles using the combined probe on W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Dubinko, A., Terentyev, D., Bakaeva, A., Pardo, T., Zibrov, M., and Morgan, T.: Effect of high flux plasma exposure on microstructural and -mechanical properties of ITER specification tungsten. (Computer Simulation of Radiation Effects in Solids (COSIRES 2016), 2016-06-19 to 2016-06-24, Loughborough).

Dunne, M. G.: Impact of impurities and divertor conditions on transitions, pedestal, and ELMs. (15th International Work-

shop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Dunne, M. G., Frassinetti, L., Beurskens, M., Cavedon, M., Fischer, R., Laggner, F. M., McDermott, R. M., Tardini, G., Viezz, E., Wolfrum, E., and ASDEX Upgrade Team: Impact of nitrogen seeding on the AUG pedestal: experiments and modelling. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Dunne, M. G., Frassinetti, L., Potzel, S., Reimold, F., Viezz, E., Wischmeier, M., Wolfrum, E., Bernert, M., Beurskens, M. N. A., Cavedon, M., Fischer, R., Kurzan, B., Laggner, F. M., McDermott, R. M., Tardini, G., Willendorfer, M., EUROfusion MST1 Team, and ASDEX Upgrade Team: The role of the density profile in the ASDEX-Upgrade pedestal structure. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Dunne, M., Potzel, S., Wischmeier, M., Wolfrum, E., Frassinetti, L., Reimold, F., EUROfusion MST1 Team, and ASDEX Upgrade Team: Predictive modelling of the impact of a radiative divertor on pedestal confinement on ASDEX Upgrade. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Dux, R., Geiger, B., McDermott, R. M., Viezz, E., and ASDEX Upgrade Team: A forward model for beam emission spectroscopy at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Dux, R., Loarte, A., Angioni, C., Coster, D., Fable, E., and Kallenbach, A.: The Interplay of Controlling the Power Exhaust and the Tungsten Content in ITER. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Eeten, P. van, Bräuer, T., Bykov, V., Carls, A., Fellinger, J., Kallmeyer, J. P., and W7-X Team: Monitoring of W7-X Cryostat Commissioning with Cryostat System FE Model. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Eeten, P. van, Klinger, T., Bosch, H. S., Brakel, R., and W7-X Team: The superconducting optimized Wendelstein 7-X: Commissioning and first Plasma Operation Experience. (22nd Topical Meeting on the Technology of Fusion Energy (TOFE 2016), 2016-08-21 to 2016-08-25, Philadelphia, PA).

Effenberg, F., Feng, Y., Frerichs, H., Schmitz, O., Bozhenkov, S. A., Höibe, H., Krychowiak, M., Pedersen, T. S., Reiter, D., and W7-X Experiments Groups: Modeling of limiter heat loads and impurity transport in Wendelstein 7-X

startup plasmas. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Effenberg, F., Feng, Y., Frerichs, H., Schmitz, O., Hölsbe, H., König, R., Krychowiak, M., Pedersen, T. S., Bozhenkov, S., and Reiter, D.: Modeling of limiter heat loads and impurity transport in Wendelstein 7-X startup plasmas. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Effenberg, F., Feng, Y., Schmitz, O., Frerichs, H., Bozhenkov, S., Geiger, J., Niemann, H., Jakubowski, M., König, R., Krychowiak, M., Pedersen, T. S., Reiter, D., Stephay, L., and Wurden, G.: 3-D Modeling of Edge Transport and Plasma Surface Interactions for Wendelstein 7-X Startup Plasmas. (The Sherwood Theory Conference, 2016-04-04 to 2016-04-06, Madison, WI).

Effenberg, F., Feng, Y., Schmitz, O., Frerichs, H., Bozhenkov, S., Hölsbe, H., Jakubowski, M., König, R., Krychowiak, M., Niemann, H., Pedersen, T. S., Reiter, D., and Stephay, L.: Modeling of plasma edge transport and impact of impurities on limiter heat fluxes in Wendelstein 7-X startup plasmas. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Eich, T.: Energy Supply, Climate Change and Nuclear Fusion Research. (WS 2015/2016. Vorlesung/Seminar, Universität Ulm).

Eich, T., Sieglin, B., Thornton, A. J., Faitsch, M., Herrmann, A., Kirk, A., Krieger, K., Sutrop, W., Matthews, G. F., Balboa, I., Loarte, A., Huijsmans, G., Pamela, S., Jachmich, S., JET Contributors, MST Team, and ASDEX Upgrade Team: ELM divertor heat load scaling to ITER with data from JET, ASDEX Upgrade and MAST. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Elgeti, S., Schwarz-Selinger, T., and Manke, G.: The Native Hydrogen Content in EUROFER97 – A Tritium Retention Problem? (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Erofeev, I., Fable, E., and Angioni, C.: Theory-based modeling of ohmic confinement parameters and impurity transport. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Erofeev, I., Fable, E., Angioni, C., Lang, P. T., McDermott, R. M., and ASDEX Upgrade Team: Validation of the TGLF model

against Ohmic confinement transitions and against impurity transport experiments in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Erofeev, I., Fable, E., Angioni, C., McDermott, R., and ASDEX Upgrade Team: Towards the explanation of the LOC-SOC transition phenomenology via ASTRA-TGLF modeling on ASDEX-Upgrade L-mode plasmas. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Fable, E., Angioni, C., Kemp, R., Pütterich, T., and Wenninger, R.: Impact of the choice of core/pedestal transport modeling assumptions on the performance of a DEMO fusion reactor. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Fable, E., Wenninger, R., Kemp, R., and Angioni, C.: Selected transport studies of a tokamak-based DEMO fusion reactor. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Fahrenkamp, N., Buttenschön, B., and Grulke, O.: Neutral Argon measurements in a high-power helicon discharge. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Fahrenkamp, N., Buttenschön, B., and Grulke, O.: Neutral Argon Measurements in a High-Power Helicon Discharge. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Faitsch, M., Eich, T., Sieglin, B., Sun, H. J., Herrmann, A., and ASDEX Upgrade Team: Change of the SOL power width with the toroidal B-field direction in ASDEX Upgrade. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Faitsch, M., Sieglin, B., Eich, T., Herrmann, A., EUROfusion MST1 Team, and ASDEX Upgrade Team: IR Thermography Optimisation for Heat Load Measurements with External Magnetic Perturbation at ASDEX Upgrade. (597th Wilhelm und Else Heraeus Seminar “Stochasticity in Fusion Plasmas,” 2015-09-10 to 2015-09-12, Bad Honnef).

Faitsch, M., Sieglin, B., Eich, T., Herrmann, A., Sutrop, W., and ASDEX Upgrade Team: 2D Heat Flux Pattern in ASDEX Upgrade L-Mode With Magnetic Perturbation. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Faitsch, M., Sieglin, B., Eich, T., Herrmann, A., Suttrop, W., and ASDEX Upgrade Team: 2D Heat Flux Pattern in ASDEX Upgrade L-Mode with Magnetic Perturbation. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Fantz, U.: Fusionsforschung. (SS 2015. Vorlesung, Universität Augsburg).

Fantz, U.: Fusionsforschung. (SS 2016. Vorlesung, Universität Augsburg).

Fantz, U.: Plasmaphysik. (WS 2014/2015. Vorlesung/Seminar, Universität Augsburg).

Fantz, U.: Plasmaphysik. (WS 2015/2016. Vorlesung, Universität Augsburg).

Fantz, U., Briefi, S., and Rauner, D.: Quantifizierung der VUV-Strahlung von HF-angeregten Wasserstoffplasmen. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Fantz, U., Briefi, S., Rauner, D., and Wunderlich, D.: Quantification of the VUV radiation in low pressure hydrogen and nitrogen plasmas. (68th Annual Gaseous Electronics Conference (GEC 68) / 9th International Conference on Reactive Plasmas (ICRP 9) / 33rd Symposium on Plasma Processing (SPP 33), 2015-10-12 to 2015-10-16, Honolulu).

Fantz, U., Briefi, S., Rauner, D., and Wunderlich, D.: Quantification of the VUV radiation from RF discharges in hydrogen. (32nd International Conference on Phenomena of Ionized Gases (ICPIG 2015), 2015-07-26 to 2015-07-31, Iasi).

Fantz, U., and Brüttig, W.: Physikalische Grundlagen der Energieversorgung. (WS 2014/2015. Seminar, Universität Augsburg).

Fantz, U., and Brüttig, W.: Physikalische Grundlagen der Energieversorgung. (WS 2015/2016. Seminar, Universität Augsburg).

Fantz, U., Heinemann, B., Wunderlich, D., Riedl, R., Kraus, W., Nocentini, R., Bonomo, F., and NNBI-Team: Towards 20 A Negative Hydrogen Ion Beams for Up to 1 hour: Achievements of the ELISE Test Facility. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Fantz, U., and Schreck, M.: Niedertemperaturplasmen als industrielle Schlüsseltechnologie. (WS 2015/2016. Seminar, Universität Augsburg).

Fantz, U., and Schreck, M.: Niedertemperaturplasmen als industrielle Schlüsseltechnologie. (WS 2014/2015. Seminar, Universität Augsburg).

Fantz, U., and Schreck, M.: Niedertemperaturplasmen als industrielle Schlüsseltechnologie. (SS 2015, Seminar, Universität Augsburg).

Fantz, U., and Schreck, M.: Plasmen in Forschung und Industrie. (SS 2015. Seminar, Universität Augsburg).

Fantz, U., and Schreck, M.: Plasmen in Forschung und Industrie. (WS 2015/2016. Seminar, Universität Augsburg).

Fantz, U., and Schreck, M.: Plasmen in Forschung und Industrie. (SS 2016. Seminar, Universität Augsburg).

Fantz, U., and Wischmeier, M.: Hochbelastete Materialien in der Fusionsforschung. (SS 2016. Vorlesung, Universität Augsburg).

Fantz, U., Wunderlich, D., Heinemann, B., Kraus, W., Riedl, R., and NNBI Team: Operation of large RF sources for H⁻: lessons learned at ELISE. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Faudot, E., Devaux, S., Moritz, J., Heuraux, S., Usoltceva, M., Nikiforov, A., Crombe, K., D'Inca, R., and Jacquot, J.: RF potential oscillations in a magnetized capacitive discharge. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Faugel, H., Bobkov, V., Fünfgelder, H., Noterdaeme, J.-M., Messiaen, A., and Van Eester, D.: ICRF system efficiency. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Faustin, J. M., Cooper, W. A., Graves, J. P., Pfefferle, D., and Geiger, J.: Modelling of ICRF fast ion generation in 2D and 3D plasma configurations. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Faustin, J. M., Cooper, W. A., Graves, J. P., Pfefferle, D., and Geiger, J.: The challenge of auxiliary fast ion tail generation in Wendelstein 7-X. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varennna).

Fedorczak, N., Gallo, A., Bufferand, H., Ciraolo, G., Eich, T., Ghendrih, P., Gunn, J. P., Nace, N., and Tamain, P.: Widths of Turbulent SOL channels in tokamak plasmas. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Felici, F., Blanken, T., Maljaars, E., Brand, H. van den, Galperti, C., Moret, J.-M., Teplukhina, A., Sauter, O., Rapson, C. J., Treutterer, W., Giannone, L., Kudlacek, O., Piron, C., TCV Team, ASDEX Upgrade Team, and EUROfusion MST1 Team: Control-oriented modeling of tokamak plasmas for real-time plasma monitoring, profile control and MHD control. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Felici, F., Blanken, T., Rapson, C., Treutterer, W., Sauter, O., and ASDEX Upgrade Team: Real-time diagnostic data fusion using the RAPTOR transport code in combination with an extended Kalman filter, with application to diagnostic fault detection and disruption prediction. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Felici, F., Rapson, C. J., Treutterer, W., Giannone, L., Maljaars, E., Brand, H. van den, Reich, M., Sauter, O., Teplukhina, A., Kim, D., Piovesan, P., Piron, C., Barrera, L., Willensdorfer, M., Bock, A., Fable, E., Geiger, B., Tardini, G., and ASDEX Upgrade Team: Real-time plasma profile state reconstruction on ASDEX-Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Fellinger, J., Loesser, D., Neilson, H., Lumsdaine, A., McGinnis, D., Wurden, G., Wendorf, J., Klose, S., Wenzel, U., Grosser, K., Rummel, K., Schultz, U., Mitchell, J., Sibilia, M., Zhang, H., Titus, P., and W7-X Team: Integration of uncooled scraper element and its diagnostics into Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Feng, Y.: Introduction to W7-X with emphasis on plasma exhaust concept. (10th West Lake International Symposium on Magnetic Fusion and 12th Asia Pacific Plasma Theory Conference, 2016-05-09 to 2016-05-13, Hangzhou).

Feng, Y.: Modeling of 3D edge transport and PWI. (597th Wilhelm und Else Heraeus Seminar "Stochasticity in Fusion Plasmas," 2015-09-10 to 2015-09-12, Bad Honnef).

Feng, Y.: Numerical exploration of detachment performance on W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Février, O., Maget, P., Lütjens, H., Decker, J., Giruzzi, G., Sauter, O., Reich, M., Beyer, P., Lazzaro, E., Nowak, S., ASDEX Upgrade Team, and EUROfusion MST1 Team: MHD simulations of magnetic island stabilization. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varennna).

Fevrier, O., Maget, P., Lütjens, H., Giruzzi, G., Reich, M., Sauter, O., Beyer, P., and ASDEX Upgrade Team: Modeling of robust NTM control by ECCD in AUG. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Fevrier, O., Maget, P., Lütjens, H., Luciani, J. F., Decker, J., Giruzzi, G., Reich, M., Beyer, P., Lazzaro, E., Nowak, S., and ASDEX Upgrade Team: Modeling of magnetic island modifications by ECCD. (7th IAEA Technical Meeting on Theory of Plasma Instabilities, 2015-03-04 to 2015-03-06, Frascati).

Fietz, S., Classen, I., Maraschek, M., Suttrop, W., Zohm, H., and ASDEX Upgrade Team: Impact of magnetic perturbation fields on tokamak plasmas. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Fietz, S., Coelho, R., Classen, I., Maraschek, M., Suttrop, W., Zohm, H., and ASDEX Upgrade Team: Study of suppressed tearing modes seeded with non-axisymmetric magnetic perturbation fields at the ASDEX Upgrade tokamak (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Figueiredo, J., Murari, A., Perez von Thun, C., Marocco, D., Tardocchi, M., Belli, F., García Muñoz, M., Silva, A., Soare, S., Craciunescu, T., Santala, M., Blanchard, P., Croft, D., and JET Contributors: JET diagnostic enhancements in preparation for DT operations. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Fil, A., Nardon, E., Hoelzl, M., Huijsmans, G. T. A., Orain, F., Becoulet, M., Beyer, P., Guirlet, R., Koslowski, H. R., Lehnen, M., Pamela, S., Pautasso, G., Reux, C., Saint-Laurent, F., Sommariva, C., ASDEX Upgrade Team, and JET Contributors: Modeling of disruption mitigation by massive gas injection with JOREK and IMAGINE in JET and ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Fil, A., Nardon, E., Hölzl, M., Huijsmans, G. T. A., Orain, F., Becoulet, M., Beyer, P., Guirlet, R., Koslowski, H. R., Lehnen, M., Pamela, S., Pautasso, G., Reux, C., Saint-Laurent, F., Sommariva, C., JET Team, and ASDEX Upgrade Team: Modeling of disruption mitigation by massive gas injection with JOREK in JET and ASDEX Upgrade. (7th IAEA Technical Meeting on Theory of Plasma Instabilities, 2015-03-04 to 2015-03-06, Frascati).

Finlay, T. J., Davis, J. W., Sugiyama, K., Alimov, V. K., and Haasz, A. A.: Ion Beam Analysis Effects on Thermal Desorption Spectra for Deuterium in Tungsten. (13th International Workshop on Hydrogen Isotopes in Fusion Reactor Materials, 2016-06-06 to 2016-06-08, Milan).

Finlay, T. J., Davis, J. W., Sugiyama, K., Alimov, V. K., and Haasz, A. A.: Effects of D and He Implantation Depth on D Retention in Tungsten under Simultaneous D-He Ion Irradiation. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Fidaouss, M., Corre, Y., Languille, P., Greuner, H., Autissier, E., Desgranges, C., Guilhem, D., Gunn, J. P., Lipa, M., Missirlian, M., Pascal, J.-Y., Pocheau, C., Richou, M., and Tsitrone, E.: Operational limits on WEST inertial divertor sector during the early phase experiment. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Fischer, R., Bock, A., Burckhart, A., Dunne, M., Ford, O., Fuchs, J. C., Giannone, L., Gude, A., Lebschy, A., Maraschek, M., McCarthy, P. J., Mlynek, A., Snicker, A., Stober, J., Tardini, G., Weiland, M., and ASDEX Upgrade Team: Upgraded equilibrium reconstructions by coupling of an extended set of measurements with current diffusion modelling at ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Fischer, R., Bock, A., Denk, S., Dunne, M., Fuchs, J. C., Giannone, L., Kurzan, B., Lackner, K., McCarthy, P. J., Mlynek, A., Preuss, R., Rampp, M., Stroth, U., Weiland, M., Willensdorfer, M., Wolfrum, E., Zehrfeld, H.-P., and ASDEX Upgrade Team: Recent developments of Integrated Data Analysis at ASDEX Upgrade: Kinetic profiles, current diffusion and equilibrium. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Fischer, R., Giannone, L., Kurzan, B., Lackner, K., McCarthy, P. J., McDermott, R., Viezzer, E., Willensdorfer, M., Zehrfeld, H. P., and ASDEX Upgrade Team: Effect of toroidal plasma rotation on the magnetic equilibrium of beam-heated plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Ford, O. P., Burckhart, A., Wolf, R., and ASDEX Upgrade Team: Imaging Motional Stark Effect measurements at ASDEX Upgrade. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Fornal, T., Kubkowska, M., Kaczmarczyk, J., Jablonski, S., Figacz, W., Ryc, L., Thomsen, H., Neuner, U., Weller, A., and W7-X Team: Conceptual design of multi-foils system for stellarator W7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Fortuna-Zalesna, E., Andrzejczuk, M., Ciupinski, L., Rozniatowski, K., Sugiyama, K., Mayer, M., Kurzydlowski, K. J., and ASDEX Upgrade Team: Post mortem analysis of a tungsten coated tile from the outer divertor strike point region of ASDEX Upgrade. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Fortuna-Zalesna, E., Rasinski, M., Balden, M., Elgeti, S., and Kurzydlowski, K. J.: High resolution scanning transmission electron microscopy (HR STEM) analysis of subsurface structure of deuterium-loaded EUROFER steel. (European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2015), 2015-09-20 to 2015-09-24, Warsaw).

Franck, E., and Mendoza, L. S.: Well Balanced Finite Volume Scheme for Euler Equations with External Forces on Unstructured Meshes. (European Numerical Mathematics and Advanced Applications (ENUMATH 2015), 2015-09-14 to 2015-09-18, Ankara).

Franck, E., Ratnani, A., Sonnendrücker, E., and Hölzl, M.: Adaptive physics-based preconditioning for hyperbolic systems – Applications to wave and MHD models. (1st JOREK General Meeting, 2015-05-26 to 2015-05-28, Garching).

Franke, T., Agostinetti, P., Avramidis, K., Bader, A., Bachmann, C., Biel, W., Bolzonella, T., Ciattaglia, S., Coleman, M., Cismonti, F., Granucci, G., Grossetti, G., Jelonnek, J., Jenkins, I., Kalsey, M., Kembleton, R., Mantel, N., Noterdaeme, J.-M., Rispoli, N., Simonin, A., Sonato, P., Tran, M. Q., Vincenzi, P., and Wenninger, R.: Heating & Current Drive Efficiencies, TBR and RAMI considerations for DEMO. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Franke, T., Avramidis, K., Granucci, G., Jelonnek, J., Jenkins, I., Kalsey, M., Noterdaeme, J.-M., Simonin, A., Sonato, P., and Tran, M. Q.: On the Present Status of the EU DEMO H&CD Systems, Technology, Functions and Mix. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Franza, F., Boccaccini, L. V., Gade, P. V., Landman, I., Pestchanyi, S., and Zohm, H.: Improved fusion reactor designs as per integration of advanced systems code modules. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Frassinetti, L., Beurskens, M. N. A., Saarelma, S., Boom, J., Delabie, E., Flanagan, J., Kempenaars, C. M., Giroud, C., Lomas, P., Meneses, L., Nunes, I., Rimini, F., and JET

Contributors: Confinement and pedestal in dimensionless collisionality scans of low triangularity H-mode plasmas in JET-ILW. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Frassinetti, L., Dunne, M. G., Beurskens, M., Cavedon, M., Fischer, R., Laggner, F. M., McDermott, R. M., Tardini, G., Viezzini, E., Wolfrum, E., EUROfusion MST1 Team, and ASDEX Upgrade Team: ELM energy losses in AUG with & without Nitrogen seeding. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Frassinetti, L., Saarelma, S., Lomas, P., Nunes, I., Beurskens, M. N. A., Boom, J., Luna, E. de la, Delabie, E., Drewelow, P., Flanagan, J., Garzotti, L., Kempenaars, M., Kim, H.-T., Giroud, C., Loarte, A., Lupelli, I., Meneses, L., Maggi, C. S., Menmuir, S., Rimini, F., Romanelli, M., Stefanikova, E., and JET Contributors: Dimensionless scans in low δ baseline JET-ILW plasmas and comparison with JET-C. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Frattolillo, A., Bombarda, F., Day, C., Lang, P. T., Migliori, S., and Pegourie, B.: An innovative approach for DEMO core fuelling by inboard injection of high-speed pellets. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Freathy, S., Conway, G. D., Classen, I., Creely, A. J., Görler, T., Happel, T., Told, D., Vanovac, B., White, A. E., and ASDEX Upgrade Team: The role of theoretical predictions in the design of Correlation ECE and n-T cross-phase diagnostics. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Freathy, S., Conway, G. D., Classen, I., Creely, A., Happel, T., Köhn, A., Vanovac, B., and White, A. E.: Measurement of turbulent electron temperature fluctuations on the ASDEX Upgrade tokamak using correlated Electron Cyclotron Emission. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Freathy, S., Conway, G. D., Classen, I., Creely, A., Happel, T., Vanovac, B., White, A. E., and ASDEX Upgrade Team: Development progress of a correlation ECE and nT-phase angle diagnostics for AUG. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Freathy, S., Conway, G. D., Classen, I., Creely, A., Happel, T., Vanovac, B., White, A. E., and ASDEX Upgrade Team: Measurement of turbulent electron temperature fluctuations on the ASDEX Upgrade tokamak using correlated Electron

Cyclotron Emission. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Freathy, S., Conway, G., Classen, I., Creely, A., White, A., Happel, T., and Vanovac, B.: Development progress of Correlation ECE and n-T cross-phase angle diagnostics for ASDEX-Upgrade. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Frerichs, H., Effenberg, F., Schmitz, O., Biedermann, C., Feng, Y., Jakubowski, M., König, R., Krychowiak, M., Lore, J., Niemann, H., Pedersen, T. S., Stephey, L., Wurden, G. A., and W7-X Team: Synthetic plasma edge diagnostics in EMC3-EIRENE, highlighted for Wendelstein 7-X. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Frerichs, H., Schmitz, O., Evans, T. E., Feng, Y., Lore, J., and Reiter, D.: Three-dimensional edge plasma modeling with EMC3-EIRENE during the application of RMP fields. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Frerichs, H., Schmitz, O., Waters, I., Evans, T., Feng, Y., and Soukhanovskii, V.: Field line reconstruction for edge transport modeling in non-axisymmetric tokamaks configurations. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Friedl, R., Kurutz, U., and Fantz, U.: Efficiency of Cs-free materials for negative hydrogen ion production. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Friedl, R., Kurutz, U., and Fantz, U.: Einfluss unterschiedlicher Oberflächen auf die Produktion negativer Wasserstoffionen. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Frigione, D., Challis, C., Garcia, J., Hobirk, J., Alper, B., Artaserse, G., Baruzzo, M., Belonohy, E., Brett, A., Buratti, P., Carvallho, I., Frassinetti, L., Garzotti, L., Giovannozzi, E., Grist, D., Hawkes, N. C., Lerche, E., Mailloux, J., Maslov, M., Morris, J., Pucella, G., Rachlew, E., Reich, M., Rimini, F., Sips, A. C. C., Solano, E. R., Stamp, M. F., Tamain, P., Tsallas, M., Valisa, M., Weisen, H., and JET Contributors: Overview of Hybrid Development in JET with ITER-Like Wall. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Frosi, P., Bachmann, C., Di L Gironimo, G., Mazzone, G., Marzullo, D., and You, J.-H.: Structural analysis of demo

divertor cassette body and design study based on rcc-mrx. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Frosi, P., Mazzone, G., Villari, S., Ramogida, G., Cocilovo, V., Crescenzi, F., and You, J.-H.: Structural Design of DEMO Divertor Cassette Body: FEM Analysis and RCCMRx Design Rules Application. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Fuchert, G., Birkenmeier, G., Carralero, D., Manz, P., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Spatiotemporal variations of blob properties in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Fuchert, G., Birkenmeier, G., Manz, P., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Influence of the I-Phase on blob properties in ASDEX Upgrade. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Fuchert, G., Carralero, D., Manz, P., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Prediction of the blob generation rate at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Füllenbach, F., Fricke, M., Köster, E., Risze, K., Rummel, T., and Lazerson, S.: The Wendelstein 7-X trim coil system commissioning and first operational results. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Fünfgelder, H., Noterdaeme, J.-M., Bobkov, V. V., Faugel, H., Jacquot, J., Ochoukov, R., Vierle, T., Zammuto, I., Tuccillo, A. A., Tudisco, O., D'Arcangelo, O., Mancini, A., Rocchi, G., Yang, Q., Wang, Y., Chen, Y., Milanesio, D., Maggiora, R., Silva, A., Aguiam, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: A double success story: the international cooperation to built the new ICRF antennas on ASDEX-Upgrade and the results obtained. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Furno, I., Agnello, R., Duval, B. P., Marini, C., Howling, A. A., Jacquier, R., Guittienne, P., Fantz, U., Wunderlich, D., Simonin, A., and Bechu, S.: A novel helicon plasma source for negative ion beams for fusion. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Futatani, S., Pamela, S., Huijsmans, G. T. A., Garzotti, L., Frigione, D., Loarte, A., Hölzl, M., Lang, P. T., Orain, F.,

Lessig, A., EUROfusion MST1 Team, ASDEX Upgrade Team, and JET Contributors: Non-linear MHD Simulations of Pellet Triggered ELMs in JET and ASDEX Upgrade tokamaks. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Galazka, K., Bernert, M., Kallenbach, A., and ASDEX Upgrade Team: Power exhaust management by impurity seeding in ASDEX Upgrade tokamak modeled by CORE-DIV code. (15th International Workshop on Plasma Edge Theory in Fusion Devices (PET15), 2015-09-09 to 2015-09-11, Nara).

Galazka, K., Ivanova-Stanik, I., Neu, R., Romanelli, M., Stepniewski, W., and Zagorski, R.: Numerical analyses of JT-60SA tungsten divertor configuration with COREDIV code. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Galdon, J., Garcia-Munoz, M., Akers, R. J., McClements, K. G., Snicker, A., Garcia-Lopez, J., Jimenez-Ramos, M. C., Lazanyi, N., Rodriguez-Ramos, M., Sanchis-Sanchez, L., and ASDEX Upgrade Team: The synthetic fast ion loss detector. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Galdon-Quiroga, J., Garcia-Munoz, M., Bilato, R., Bobkov, V., Fietz, S., Garcia-Lopez, J., Igochine, V., Lazanyi, N., Mantsinen, M., Maraschek, M., Odstrcil, T., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Sieglin, B., Snicker, A., Tardini, G., Vezinet, D., and ASDEX Upgrade Team: Damage of Plasma Facing Components due to Fast-Ion Losses in the ASDEX Upgrade Tokamak. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Galdon-Quiroga, J., Garcia-Munoz, M., Bilato, R., Bobkov, V., Fietz, S., Garcia-Lopez, J., Igochine, V., Lazanyi, N., Mantsinen, M., Maraschek, M., Odstrcil, T., Sanchis-Sanchez, L., Rodriguez-Ramos, M., Sieglin, B., Snicker, A., Tardini, G., Vezinet, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Analysis of fast-ion heat load induced by tearing/kink fluctuations in the ASDEX Upgrade tokamak. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Gallart, D., Garzotti, L., Mantsinen, M. J., Bilato, R., Challis, C., Garcia, J., Lerche, E., Van Eester, D., and JET Contributors: Simulations of combined ICRF and NBI heating for high fusion performance in JET. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Gallo, A., Fedorczak, N., Elmore, S., Labit, B., Theiler, C., Reimerdes, H., Nespoli, F., Maurizio, R., Ghendrih, P., Eich, T., and TCV Team: Effect of plasma geometry on divertor heat load spreading: simulations and experimental results from TCV. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Gao, L., Balden, M., and Jacob, W.: Effect of Microstructure of Forged Tungsten on Deuterium Retention and Blistering by Deuterium Plasma Exposure. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Gao, L., Jacob, W., Schmid, K., Toussaint, U. von, Manhard, A., Schwarz-Selinger, T., and Balden, M.: Reconstructing the Deuterium Depth Profile in Plasma-loaded Tungsten. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Gao, L., Jacob, W., Schwarz-Selinger, T., Manhard, A., and Meisl, G.: Interaction of Deuterium Plasma with Sputter-deposited Tungsten Nitride Films. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Gao, Y., Rack, M., Liang, Y., Sieglin, B., Denner, P., Sutrop, W., Kirk, A., Wolfrum, E., and ASDEX Upgrade Team: Effects of 3D magnetic perturbation on divertor heat load redistribution on ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Garcia, A., Noterdaeme, J.-M., Fischer, U., and Dies, J.: Effect on the tritium breeding ratio for a distributed ICRF antenna in a DEMO reactor. (21st Topical Conference on Radio-frequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Garcia, J., Challis, C., Doerk, H., Gallart, D., Garzotti, L., Görler, T., Mantsinen, M., and JET Contributors: Challenges in the extrapolation from DD to DT plasmas: experimental analysis and theory based predictions for JET-DT. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Garcia, L., Ochando, M. A., Carreras, B. A., Carralero, D., Hidalgo, C., and Milligen, B. P. van, and JET Contributors: Effect of fast electrons on the stability of resistive interchange modes. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Garcia-Munoz, M., Geiger, B., Pace, D. C., Van Zeeland, M. A., and ASDEX Upgrade Team: Fast-Ion Transport in the AUG and DIII-D Tokamaks. (57th Annual Meeting of the APS

Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Garcia-Munoz, M.: Fast-ion losses caused by R-MPs. (EUROfusion Science Meeting – ELM Control, 2015-03-03, Culham).

Garcia-Munoz, M., Van Zeeland, M. A., Sharapov, S., Classen, I. G. J., Bobkov, B., Galdon-Quiroga, J., Geiger, B., Igochine, V., Lauber, P., Lazanyi, N., Nabais, F., Pace, D. C., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Schneller, M., Snicker, A., Stober, J., and ASDEX Upgrade Team: Impact of localized ECRH on NBI driven Alfvén eigenmodes in the ASDEX Upgrade tokamak. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Garcia-Munoz, M., Van Zeeland, M. A., Sharapov, S., Classen, I. G. J., Bobkov, B., Galdon-Quiroga, J., Geiger, B., Igochine, V., Lauber, P., Lazanyi, N., Nabais, F., Pace, D. C., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Schneller, M., Snicker, A., Stober, J., ASDEX Upgrade Team, and EUROfusion MST1 Team: Impact of localized ECRH on NBI and ICRH driven Alfvén eigenmodes in the ASDEX Upgrade tokamak. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Garcia-Regana, J. M., Turkin, Y., Smith, H., Sertoli, M., Alonso, J. A., Angioni, C., Bustos, A., Calvo, I., Cooper, W. A., Geiger, J., Kleiber, A., Strumberger, E., Velasco, J. L., and ASDEX Upgrade Team: Neoclassical transport in displaced tokamak helical cores. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Garcia-Rosales, C., Calvo, A., Ordas, N., Iturriza, I., Koch, F., Schlüter, K., Greuner, H., Neu, R., Pintsuk, G., Litnovsky, A., Wegener, T., Rasinski, M., Pastor, J. Y., and Tejado, E.: Self-passivating tungsten alloys of the system W-Cr-Y: characterization and testing. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Garitta, S., Di Maio, P. A., You, J.-H., Mazzone, G., and Vallone, E.: Thermal-hydraulic behaviour of the DEMO divertor plasma facing components cooling circuit. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Garland, S., Fuchert, G., and Ramisch, M.: The structure and dynamics of blob filaments in the stellarator TJ-K. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Garland, S., Fuchert, G., Ramisch, M., and Hirth, T.: The effect of magnetic field geometry on filamentary plasma

structures in TJ-K. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Garland, S., Fuchert, G., Ramisch, M., and Hirth, T.: The influence of magnetic field geometry on blob structure and dynamics in TJ-K. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Geiger, B., Dux, R., Reimer, R., Lebschy, A., McDermott, R., Reich, M., Dunne, M., Salewski, M., Weiland, M., and ASDEX Upgrade Team: Measurement and interpretation of active Balmer alpha spectra at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Geiger, J.: Plasma equilibrium and confinement with magnetic islands and stochastic magnetic layers. (597th Wilhelm und Else Heraeus Seminar “Stochasticity in Fusion Plasmas,” 2015-09-10 to 2015-09-12, Bad Honnef).

Geiger, J., Beidler, C. D., Feng, Y., Helander, P., Hölbe, H., Maßberg, H., Suzuki, Y., and Turkin, Y.: Plasma effects on separatrix-limited configurations of W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Giancarli, L. M., Campbell, D. J., Chiocchio, S., Dell’Orco, G., Elbez-Uzana, J., Fourneron, J. M., Gasparotto, M., Iseli, M., Kim, B.-Y., Lazarov, D., Levesy, B., Merola, M., Nevière, J.-C., Pascal, R., Ring, W., Sands, D., Shu, W., Siarras, A., Snipes, J. A., and Laan, J. G. van der: Progress and Challenges of the ITER TBM Program from the IO Perspective. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Giannone, L., Bilato, R., Maraschek, M., Geiger, B., Odstrcil, T., Fischer, R., Fuchs, J. C., McCarthy, P. J., Mertens, V., Schuhbeck, K. H., and ASDEX Upgrade Team: Real-time diamagnetic flux measurements on ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Giannone, L., Fischer, R., McCarthy, P. J., Odstrcil, T., and ASDEX Upgrade Team: Enhancements for real-time magnetic equilibrium reconstruction on ASDEX Upgrade. (10th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research, 2015-04-20 to 2015-04-24, Ahmedabad, Gujarat).

Gietl, H., Aumann, M., Coenen, J., Höschen, T., Huber, P., Neu, R., and Riesch, J.: Further development of the tungsten-fibre reinforced tungsten composite. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Gietl, H., Riesch, J., Coenen, J. W., Höschen, T., Brensing, M., and Neu, R.: Tungsten fibre-reinforced tungsten composites – Development of a high temperature material for fusion application. (6th Colloquium of the Munich School of Engineering: “New Concepts in Energy Science and Engineering,” 2016-07-07, Garching).

Gietl, H., Riesch, J., Coenen, J. W., Höschen, T., Neu, R., and Linsmeier, C.: Material qualification of tungsten fibre-reinforced tungsten composite by means of tension tests. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Glöggler, S., Bernert, M., Eich, T., and ASDEX Upgrade Team: A New Algorithm to Determine the Total Radiated Power at ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Görler, T.: Multi-code benchmark of global gyrokinetic electromagnetic instabilities. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Görler, T., Bottino, A., Hornsby, W. A., Kleiber, R., Tronko, N., Grandgirard, V., Norscini, C., and Sonnendrücker, E.: Multi-code benchmark of global gyrokinetic electromagnetic instabilities. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Görler, T., Garcia, J., and Jenko, F.: Gyrokinetic electromagnetic isotope effect in ITER-hybrid plasmas and validation. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Görler, T., Jenko, F., Told, D., White, A., Holland, C., and Rhodes, T. L.: Recent progress in comparing gyrokinetic GENE simulations with experimental measurements. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Gadic, D., Ford, O., Lunt, T., and Wolf, R. C.: Doppler Coherence Imaging of Ion Dynamics in VINETA.II and ASDEX-Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Gadic, D., Ford, O., and Wolf, R.: Doppler coherence imaging of ion dynamics in the plasma experiment VINETA I. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Gradic, D., Ford, O., Wolf, R. C., and VINETA Team: Doppler Coherence Imaging of Ion Dynamics in VINETA II. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Grahl, M., Bluhm, T., Grün, M., Hennig, C., Holtz, A., Krom, J., Kühner, G., Laqua, H., Lewerentz, M., Riemann, H., Spring, A., and Werner, A.: ArchiveDB WEB API: a web service for the experiment data archive of Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Granucci, G., Esposito, B., Maraschek, M., Cianfarani, C., Galperti, C., Giannone, L., Gude, A., Nowak, S., Poli, E., Pucella, G., Rapson, C., Reich, M., Sozzi, C., Stober, J., Treutterer, W., Willensdorfer, M., and ASDEX Upgrade Team: Stable operation at disruptive limits by means of EC at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Greuner, H.: Investigation of Materials for Fusion Application in the High Heat Flux Test Facility GLADIS. (EuCARD-2 Workshop on Applications of Thermal Management Materials, 2015-06-11, CERN, Geneva).

Greuner, H., Böswirth, B., Boscary, J., Friedrich, T., Maier, H., and Toussaint, U. von: Completion of W7-X divertor target manufacturing – Review of HHF testing strategy as quality assessment. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Greuner, H., Böswirth, B., Maier, H., Hirai, T., and Panayotis, S.: Potential approach of IR analysis for HHF quality assessment of ITER tungsten divertor targets. (22nd ITPA Meeting on SOL/Divertor Physics, 2016-01-25 to 2016-01-28, Frascati).

Greuner, H., Böswirth, B., Maier, H., Toussaint, U. von, Hirai, T., and Panayotis, S.: Potential approach of IR-analysis for HHF quality assessment of ITER tungsten divertor targets. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Greuner, H., Maier, H., Schmid, K., and Schwarz-Selinger, T.: Hydrogen inventory of actively cooled tungsten targets exposed to high heat loading generated by H/He fluxes. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Griener, M., Cavedon, M., Eich, T., Fuchert, G., Herrmann, A., Lunt, T., Rohde, V., Schmitz, O., Schweer, B., Stroth, U., Terra, A., Wolfrum, E., and ASDEX Upgrade Team: Fast

piezoelectric valve offering controlled gas injection in magnetically confined fusion plasmas for diagnostic and fuelling purposes. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Griener, M., Wolfrum, E., Eich, T., Herrmann, A., Rohde, V., Schmitz, O., Stroth, U., and ASDEX Upgrade Team: A new thermal He-beam diagnostic for electron density and temperature measurements in the scrape-off layer of ASDEX Upgrade. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Griener, M., Wolfrum, E., Eich, T., Herrmann, A., Rohde, V., Schmitz, O., Stroth, U., and ASDEX Upgrade Team: Status of the new thermal He-beam diagnostic for electron density and temperature measurements in the scrape-off layer of ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Grulke, O.: Hochtemperaturplasmaphysik I. (WS 2015/2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Grulke, O.: Turbulence Studies in Wendelstein 7-X. (Gyrokinetic Theory Working Group Meeting (GAMPP 2016), 2016-09-26 to 2016-09-30, Madrid).

Grulke, O., Buttenschön, B., and Fahrenkamp, N.: A high-density helicon discharge for the advanced plasma accelerators AWAKE. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Grulke, O., Buttenschön, B., and Fahrenkamp, N.: A high-density plasmas source for AWAKE. (2nd European Advanced Accelerator Concepts Workshop (EAAC), 2015-09-13 to 2015-09-19, La Biodola, Elba).

Gude, A., Maraschek, M., Eulenberg, P., Igochine, V., and ASDEX Upgrade Team: Automated sawtooth detection with multi-signal analysis. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Guidi, L., Maj, O., and Poli, E.: A Monte-Carlo scheme for cross-polarization scattering of diffracting wave beams in random media. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Guidi, L., Maj, O., Weber, H., Köhn, A., Snicker, A., and Poli, E.: Cross-polarization scattering of diffracting electron-cyclotron beams in a turbulent plasma with the WKBeam

code. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Guilhem, D., Bucalossi, J., Burles, S., Corre, Y., Ferlay, F., Firdaouss, M., Languille, P., Lipa, M., Martinez, A., Mis-sirlian, M., Proust, M., Richou, M., Samaille, F., Tsitrone, E., Greuner, H., Morgan, T., Pintsuk, G., and Ruset, C.: Qualifying high heat flux tungsten plasma facing components for WEST operation. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Guillemaut, C., Drewelow, P., Matthews, G. F., Kukushkine, A. S., Pitts, R. A., Devaux, S., Wischmeier, M., Lowry, C. G., Giroud, C., Brezinsek, S., Maggi, C. F., Wiesen, S., Abreu, P., and JET Contributors: Evidence for enhanced main chamber wall plasma loads in JET ITER-like Wall at high radiated fraction. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Guimaraes, L., Nikolaeva, V., Potzel, S., Reimold, F., Bernert, M., Carralero, D., Conway, G. D., Manso, M. E., Santos, J., Silva, A., Silva, C., Wolfrum, E., and ASDEX Upgrade Team: LFS/HFS edge density profile dynamics on ASDEX-Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Guimaraes, L., Potzel, S., Bernert, M., Carralero, D., Nikolaeva, V., Reimold, F., Conway, G. D., Manso, M. E., Santos, J., Silva, A., Silva, C., Wolfrum, E., and ASDEX Upgrade Team: Poloidal asymmetries in the edge density profiles on ASDEX-Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Günter, S.: Fusionsforschung. (SS 2015. Vorlesung, Technische Universität München).

Günter, S.: Fusionsforschung mit dem Wendelstein 7-X. (129. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte e. V. (GDNÄ), 2016-09-09 to 2016-09-12, Greifswald).

Günter, S.: Die Gegenwart der Fusionsforschung und die Zukunft eines (energieerzeugenden) Fusionsreaktors. (Oberflächen, Fusion und mehr. Kolloquium anlässlich des 70. Geburtstages von Professor Dr. Dr. h.c. Alexander M. Bradshaw, 2015-01-30, Berlin).

Günter, S.: Kernfusion – eine Option für die künftige Energieversorgung? (Essener EnergieForum (EEF 2016), 2016-05-19 to 2016-05-20, Essen).

Günter, S.: Kernfusion als Zukunft der Energieerzeugung? – Einblicke in Wendelstein 7-X. (23. Handelsblatt Jahrestagung – Energiewirtschaft 2016, 2016-01-19 to 2016-01-21, Berlin).

Günter, S.: Physikalische Grundlagen eines Fusionskraftwerks. (Ringvorlesung an der Fakultät für Physik, 2016-05-04, Technische Universität München).

Günter, S.: Physikalische Grundlagen eines Fusionskraftwerks. (Ringvorlesung am Institut für Physik, 2016-05-24, Universität Rostock).

Günter, S.: Science with the most modern stellarator, Wendelstein 7-X. (Jahrestagung der Schweizer Physikalischen Gesellschaft 2016, 2016-08-23 to 2016-08-25, Lugano).

Günter, S.: Die Sonne auf die Erde holen – Wie funktioniert ein Fusionskraftwerk? (Kolloquiumsvortrag am Leibniz-Institut für Festkörper- und Werkstoffforschung, 2016-03-07, Dresden).

Günter, S.: Tokamak and Stellarator – the two concepts of magnetic confinement. (GSI-FAIR Colloquium, 2016-05-31, Darmstadt).

Günter, S.: Tokamak and Stellarator – the two concepts of magnetic confinement. (Kolloquiumsvortrag am Helmholtz-Zentrum (HZDR), 2016-03-17, Dresden-Rossendorf).

Günter, S.: Wie funktioniert die Kernfusion? (Lange Nacht der Wissenschaften, 2015-06-27, IPP Garching).

Günter, S., Lauber, P., Manz, P., and Stroth, U.: Plasmaphysik. (WS 2015/2016. Hauptseminar, Technische Universität München).

Günter, S., Lauber, P., and Stroth, U.: Plasmaphysik. (SS 2016. Proseminar, Technische Universität München).

Günter, S., Orain, F., and Papp, G.: Fusionsforschung. (SS 2016. Vorlesung/Übung, Technische Universität München).

Günter, S., Stroth, U., and Lauber, P.: Plasmaphysik. (WS 2015/2016. Proseminar, Technische Universität München).

Günter, S., Stroth, U., and Lauber, P.: Plasma Physics. (WS 2014/2015. Proseminar, Technische Universität München).

Hakola, A., Airila, M. I., Karhunen, J., Kurki-Suonio, T., Makkonen, T., Sillanpää, H., Meisl, G., Oberkofler, M., Mellet, N., and ASDEX Upgrade Team: ERO and PIC simulations of gross and net erosion of tungsten in the outer

strike-point region of ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Hakola, A., Karhunen, J., Groth, M., Herrmann, A., Krieger, K., Kurki-Suonio, T., Meisl, G., Oberkofler, M., Neu, R., Potzel, S., Rohde, V., and ASDEX Upgrade Team: Gross and net erosion of tungsten in the outer strike-point of ASDEX Upgrade. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Hakola, A., Likonen, J., Koivuranta, S., Mayer, M., Neu, R., Rohde, V., Sugiyama, K., and ASDEX Upgrade Team: How much plasma fuel is retained in the Asdex Upgrade tokamak (Physics Days 2015 – The 49th Annual Meeting of the Finnish Physical Society, 2015-03-17 to 2015-03-19, Helsinki).

Hallatschek, K.: Einführung in die Magnetohydrodynamik – Ideale Plasmaeffekte. (WS 2015/2016. Vorlesung, Technische Universität München).

Hallatschek, K.: Flüssigkeiten ohne Stöße – Einführung in die kinetische Plasmaphysik. (SS 2015. Vorlesung, Technische Universität München).

Hallatschek, K.: Große Wirbel (Zonal flows und andere Strukturen) in Kernfusionsreaktoren, auf dem Jupiter, in Klima und Astrophysik. (SS 2016. Vorlesung, Technische Universität München).

Hallatschek, K.: Gyrokinetic and Two-Fluid Tokamak Turbulence Simulations. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Hallatschek, K.: Introduction to Magnetohydrodynamics – Ideal Plasma Effects. (WS 2014/2015. Vorlesung, Technische Universität München).

Hallatschek, K.: Zonal Flows in Fluid, Gyrokinetic and Planetary Turbulence Simulations. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Hallatschek, K.: Zonal flows and GAMs in comparative gyrokinetic and two-fluid tokamak turbulence simulations. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Happel, T., Hetzenecker, A., Manz, P., Hennequin, P., Ryter, F., Conway, G. D., Honore, C., Stroth, U., and ASDEX Upgrade Team: Observation of strongly intermittent density turbulence in ASDEX Upgrade I-mode plasmas. (12th International

Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Happel, T., Hetzenecker, A., Manz, P., Hennequin, P., Ryter, F., Conway, G. D., Honore, C., Stroth, U., and ASDEX Upgrade Team: Observation of strongly intermittent density turbulence in ASDEX Upgrade I-mode plasmas. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Happel, T., Manz, P., Ryter, F., Bernert, M., Dunne, M., Hennequin, P., Hetzenecker, A., Conway, G. D., Guimarais, L., Honore, C., Maraschek, M., Stroth, U., Viezz, E., and ASDEX Upgrade Team: The I-mode confinement regime at ASDEX Upgrade: global properties and characterization of strongly intermittent density fluctuations. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Happel, T., Manz, P., Ryter, F., Bernert, M., Dunne, M., Hennequin, P., Hetzenecker, A., Conway, G. D., Guimarais, L., Honore, C., Stroth, U., Viezz, E., and ASDEX Upgrade Team: Turbulence intermittency in the confinement region of I-mode plasmas in the ASDEX Upgrade tokamak. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Harris, J., Unterberg, E., Lore, J., Stephey, L., Schmitz, O., Wurden, G., Biedermann, C., Krychowiak, M., and König, R.: Filterscope edge plasma diagnostic for the W7-X stellarator. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Harrison, J. R., Vijvers, W. A. J., Theiler, C., Duval, B., Elmore, S., Labit, B., Lipschultz, B., Tsui, C., Reimerdes, H., Sheikh, U., Verhaegh, K., Wischmeier, M., and MST1 Team: Recent Detachment Studies on the TCV Tokamak. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Hartfuß, H.-J., and Hirsch, M.: A few aspects of W7-X ECE diagnostic. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Härtl, T., Rohde, V., Stelzer, F., Mertens, V., and ASDEX Upgrade Team: Optimization of the ASDEX Upgrade glow discharge system. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Hartmann, D. A., McNeely, P., Barlak, M., Baldzuhn, J., Bozhenkov, S., Drevlak, M., Gawlik, G., Heinemann, B., Holtum, D., Jagielski, J., Kairys, R., Nocentini, R., Orozco, G., Riedl, R., Rong, P., Rust, N., Schroeder, R., Speth, E.,

Stäbler, A., Turos, A., and Wolf, R. C.: Current Status of the Neutral Beam Injection System of W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Hatano, Y., Alimov, V. K., Schmid, K., Doerner, R., and Ueda, Y.: Fuel retention and transport in tungsten: neutron irradiation, seeded impurities, alloying and isotope effects. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Hatano, Y., Ami, K., Alimov, V. K., Toyama, T., Kurishita, H., Fukuda, M., Hasegawa, A., Kondo, S., Hinoki, T., Sugiyama, K., Oya, Y., Yajima, M., Muroga, T., Ohno, N., Oyadzu, M., and Hayashi, T.: Deuterium Retention in W and W-Re Alloy Irradiated with High Energy Fe Ions at Elevated Temperatures. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Hatch, D., Kotschenreuther, M., Mahajan, S., Valanju, P., Liu, X., Görler, T., Jenko, F., and Told, D.: Microtearing Turbulence Limiting the JET-ILW Pedestal. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Hatch, D., Kotschenreuther, M., Mahajan, S., Valanju, P., Liu, X., Jenko, F., Told, D., Görler, T., and Saarelma, S.: Gyrokinetic Study of JET-ILW Pedestal Transport. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Hatch, D., Kotschenreuther, M., Mahajan, S., Valanju, P., Liu, X., Told, D., and Goerler, T.: Gyrokinetic Simulations of the JET-ILW Pedestal. (The Sherwood Theory Conference, 2016-04-04 to 2016-04-06, Madison, WI).

Haußler, A., Fischer, U., and Warmer, F.: Neutronics analysis of a stellarator power reactor based on the HELIAS concept. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Hayward, T., and Lauber, P.: The domino effect of unstable one-dimensional bump-on-tail modes as a test for critical numerical scales. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Heinemann, B., Wunderlich, D., Fantz, U., Fröschle, M., Kraus, W., Nocentini, R., and Riedl, R.: Progress and further plans towards high power negative ion beams at ELISE. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Heinola, K., Widdowson, A., Likonen, J., Alves, E., Baron-Wiechec, A., Barradas, N., Brezinsek, S., Catarino, N., Coad, P., Koivuranta, S., Krat, S., Matthews, G. F., Mayer, M., Petersson, P., and JET Contributors: Long Term Fuel Retention in JET ITER-Like Wall. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Helander, P.: Einführung in die Astrophysik. (WS 2014/2015. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Helander, P.: Einführung in die Astrophysik. (SS 2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Helander, P.: Elektrodynamik. (WS 2015/2016. Vorlesung/Übung, Ernst-Moritz-Arndt-Universität Greifswald).

Helander, P.: Fusion energy, tokamaks and stellarators. (Talk for Physics Students, 2016-02-09, D'Overbroecks School, Oxford).

Helander, P.: Fusion Energy with a Twist. (The Occam Lecture, 2016-03-07, Merton College, University of Oxford).

Helander, P.: Hamiltonian mechanics in magnetic fields and the role of “hidden symmetries.” (Theoretical Physics Colloquium, 2016-01-22, University of Oxford).

Helander, P.: The path to, and vision of, stellarator reactors. (Frontiers in Fusion Research, 2015-05-06, University of York).

Helander, P.: Stellarators, fusion energy and the Wendelstein 7-X experiment. (Physics Colloquium, 2016-01-29, University of Oxford).

Helander, P.: Stellarators, Wendelstein 7-X, and its first results. (JET, Culham Centre for Fusion Energy, 2016-02-11, Oxfordshire).

Hennequin, P., Happel, T., Schneider, P., Ryter, F., Birkenmeier, G., Clairet, F., Conway, G. D., Guimaraes, L., Gürcan, Ö., Honore, C., Medvedeva, A., Nikolaeva, V., Simon, P., Stroth, U., Vermare, L., and ASDEX Upgrade Team: Study of turbulence spatial structure and its scaling with ρ^* . (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Hennequin, P., Schneider, P. A., Happel, T., Ryter, F., Birkenmeier, G., Bustos, A., Clairet, F., Conway, G. D., Dif-Pradalier, G., Jenko, F., Garbet, X., Görler, T., Honoré, C., Gürcan, Ö., Guimaraes, L., Medvedeva, A., Morel, P., Nikolaeva, V., Simon, P., Stroth, U., Vermare, L., and ASDEX

Upgrade Team: Comprehensive experimental study of plasma turbulence structure and its scaling with p^* . (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Hennequin, P., Schneider, P. A., Happel, T., Ryter, F., Birkenmeier, G., Clairet, F., Conway, G., Guimarais, L., Gürçan, Ö., Honoré, C., Medvedeva, A., Nikolaeva, V., Simon, P., Stroth, U., Vermare, L., and ASDEX Upgrade Team: Experimental study of plasma turbulence structure and its scaling with p^* . (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Hennig, C.: Online Archivierung wissenschaftlicher Daten – BIG DATA in einem Forschungsinstitut. (Jahrestagung Fachgruppe Frauen und Informatik der Gesellschaft für Informatik e.V., 2015-04-17 to 2015-04-19, Heidelberg).

Hennig, C.: Online Archivierung wissenschaftlicher Daten – BIG DATA in einem Forschungsinstitut. (Vortrag an der Hochschule Bremerhaven, 2015-06-08, Bremerhaven).

Hennig, C., Maier, J., Grün, M., Krom, J. G., Kühner, G., Bluhm, T., Grahl, M., Heimann, P., Riemann, H., Laqua, H., Lewerentz, M., Spring, A., and Werner, A.: ArchiveDB – scientific and technical data archive for Wendelstein 7-X. (10th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research, 2015-04-20 to 2015-04-24, Ahmedabad, Gujarat).

Hergenhahn, U., Niemann, H., Paschkowski, N., Pedersen, T. S., Saitoh, H., Stanja, J., Stenson, E. V., Stoneking, M., Hugenschmidt, C., Piochacz, C., Vohburger, S., Schweikhard, L., Danielson, J. R., and Surko, C. M.: Recent status of the PAX and APEX projects toward the formation of electron-positron plasma. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Herrmann, A., Lunt, T., Zohm, H., Faitsch, M., Kallenbach, A., Lackner, K., Neu, R., Rott, M., Schall, G., Sieglin, B., Teschke, M., Vorbrugg, S., Weißgerber, M., Wischmeier, M., Zammuto, I., and ASDEX Upgrade Team: An optimized upper divertor with divertor-coils and cryopump to study enhanced divertor configurations in ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Herrmann, A., Sieglin, B., Faitsch, M., and ASDEX Upgrade Team: Temperature measurement and heat load calculations under plasma load. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Herrmann, A., Sieglin, B., Faitsch, M., Marné, P. de, and ASDEX Upgrade Team: Surface temperature measurement of

in-vessel components and its real-time validation. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Herrmann, A., Sieglin, B., Faitsch, M., Marné, P. de, and ASDEX Upgrade Team: Temperature measurement and real-time validation. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Herrmann, A., Zammuto, I., Balden, M., Greuner, H., Jaksic, N., Kallenbach, A., Li, M., Neu, R., Rohde, V., and ASDEX Upgrade Team: Experiences with a solid tungsten divertor in ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Hidalgo, C., Zocco, A., and Tanaka, K.: 3D effects on L-H transition in stellarators. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Hillairet, J., Mollard, P., Zhao, Y., Bernard, J., Song, Y., Argouarch, A., Berger-By, G., Charabot, N., Chen, G., Chen, Z., Colas, L., Delaplanche, J., Dumortier, P., Durodié, F., Ekedahl, A., Fedorczak, N., Ferlay, F., Goniche, M., Hatchressian, J.-C., Helou, W., Jacquot, J., Joffrin, E., Litaudon, X., Lombard, G., Maggiore, R., Magne, R., Milanesio, D., Patterlini, J.-C., Prou, M., Verger, J., Volpe, R., Vulliez, K., Wang, Y., Winkler, K., Yang, Q., and Yuan, S.: Ion Cyclotron Resonance Heating Systems Upgrade toward High Power and CW Operations in WEST. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Hillesheim, J. C., Meneses, L., Delabie, E., Meyer, H., Maggi, C., Poli, E., Silva, A., and JET Contributors: Radial electric field measurements with Doppler backscattering in JET (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Hindenlang, F., Hözl, M., and Sonnendrücker, E.: A Parallel 3D Discontinuous Galerkin Framework for Nonlinear Resistive MHD Simulations in Tokamak and Stellarator Geometries. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Hirsch, M., Benndorf, A., Beiersdorf, D., Beurskens, M. N. A., Blanco, E., Burhenn, R., Cappa, A., Estrada, T., Ewert, K., Gliege, G., Hartfuss, H.-J., Heuer, C., Herrmann, R., Kasparek, W., Knauer, J., Kornejew, P., Krämer-Flecken, A., Lapayese, F., Milligen, B. van, Mohr, S., Neuner, U., Pacios, L., Peña, A. de la, Pilopp, D., Plaum, B., Rüter, N., Sieber, T., Stange, T., Steffen, M., Pedersen, T. S., Tomaschewski, A.,

Trimino-Mora, H., Wagner, D., Waschniewski, S., Windisch, T., Wolf, R., and Wolf, S.: Microwave and Interferometer Diagnostics Prepared for First Plasma Operation of Wendelstein 7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Hirsch, M., Benndorf, A., Blanco, E., Cappa, A., Estrada, T., Ewert, K., Gliege, G., Hartfuss, H.-J., Heuer, C., Herrmann, R., Kasperek, W., Knauer, J., Kornejew, P., Krämer-Flecken, A., Lapayese, F., Milligen, B. van, Mohr, S., Neuner, U., Pacios, L., Pena, A. de la, Pilopp, D., Plaum, B., Rüter, N., Sieber, T., Stange, T., Steffen, M., Trimino Mora, H., Wagner, D., Windisch, T., and Wolf, S.: Microwave and Interferometer Diagnostics Prepared for First Plasma Operation of Wendelstein 7-X. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Hirsch, M., Beurskens, M. N. A., Biedermann, C., Estrada, T., Krämer-Flecken, A., Klose, S., and Windisch, T.: Issues for H-mode studies in Wendelstein 7-X. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Hirsch, M., Geiger, J., Hartfuss, H.-J., Höfel, U., Köster, F., Maassberg, H., Marushchenko, N. B., Schmuck, S., Stange, T., Svensson, J., Tsuchiya, H., Weir, G. M., Wolf, R. C., and W7-X Team: ECE measurements in Wendelstein 7-X plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Hirsch, M., Hartfuss, H.-J., Schmuck, S., Stange, T., and Tsuchiya, H.: ECE diagnostic for Wendelstein 7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Hoeschen, C., Lugmeier, J., Höschen, T., Pohl, L., Meisl, G., and Kögel-Knabner, I.: Surface Layer Investigation Capability with EXLIE Cs-Deposition in NanoSIMS. (SIMS Europe 2016, 2016-09-18 to 2016-09-20, Münster).

Höfel, U., Hartfuss, H.-J., Hirsch, M., Köster, F., Maassberg, H., Marushchenko, N. B., Schmuck, S., Stange, T., Tsuchiya, H., Weir, G. M., Wolf, R., and W7-X Team: First measurement on electron heat transport in the core plasma of Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Höfel, U., Hirsch, M., Ewert, K., Hartfuß, H.-J., Laqua, H. P., Stange, T., Wolf, R., and W7-X Team: Calibration and Usecases of the Electron Cyclotron Emission diagnostic at Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Hogeweij, G. M. D., Bourdelle, C., Citrin, J., Ivanova-Stanik, I., Sertoli, M., ASDEX Upgrade Team, Eurofusion MST1 Team, and EU-IM Team: Tracer transport with multiple W charge states in ASDEX Upgrade. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Hölbe, H., Pedersen, T. S., Geiger, J., Bozhenkov, S., and Fellinger, J.: Computer simulations of the scraper element for the nuclear fusion experiment Wendelstein 7-X. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Hölzl, M., Huijsmans, G., Merkel, P., Atanasiu, C., Strumberger, E., Lackner, K., Mochalsky, S., and Hatzky, R.: Resistive Wall Simulations with JOREK. (1st JOREK General Meeting, 2015-05-26 to 2015-05-28, Garching).

Hopf, C.: Neutral beam heating and current drive (physics). (Joint European Research Doctorate in Fusion Science and Engineering, Engineering Advanced Course, 2015-10-19 to 2015-10-30, Padova).

Hopf, C., and Fantz, U.: Neutral Beam System for DEMO: Update on IPP's Activities. (German DEMO Working Group Meeting, 2015-04-28 to 2015-04-29, Jülich).

Hopf, C., Rittich, D., Geiger, B., Reich, M., Mlynek, A., Bock, A., Burckhart, A., Rapson, C., Ryter, F., and ASDEX Upgrade Team: Recent progress in neutral beam current drive experiments on ASDEX Upgrade. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Hopf, C., Rittich, D., Schäffler, J., Thalhammer, J., and ASDEX Upgrade Team: Helium neutral beam injection into ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Horacek, J., Pitts, R. A., Gunn, J., Silva, C., Rudakov, D., Arnoux, G., Marsen, S., Vondracek, P., Maddaluno, G., Pericoli, V., Viola, B., Xu, G. S., Wang, H., Nie, L., LaBombard, B., Brezinsek, S., Xu, Y., Shimada, M., Adamek, J., Popov, T., Dimitrova, M., Seidl, J., Janky, F., Havlicek, J., Panek, R., Goldston, R. J., and Stangeby, P. C.: Multi-machine scaling of main SOL parallel heat flux width in tokamak limiter plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Horacek, J., Scarabosio, A., Eich, T., Guillemaut, C., Jardin, A., Matthews, G., Sieglin, B., and JET Contributors: Scaling of L-mode divertor profiles at tokamak JET vertical and horizontal targets. (22nd International Conference on Plasma

Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Hornsby, W. A., Buchholz, R., Casson, F. J., Migliano, P., Poli, E., Zarzoso, D., and Peeters, A. G.: Nonlinear gyrokinetic simulation of tearing modes. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Hornsby, W. A., Buchholz, R., Casson, F. J., Migliano, P., Poli, E., Zarzoso, D., and Peeters, A. G.: Self-consistent interaction of the tearing mode with electromagnetic gyrokinetic turbulence. (7th IAEA Technical Meeting on Theory of Plasma Instabilities, 2015-03-04 to 2015-03-06, Frascati).

Hornung, G., Dif-Pradalier, G., Clairet, F., Sabot, R., Sarazin, Y., Abiteboul, J., Bottreau, C., Vermare, L., Molina, D., Arnichand, H., Hacquin, S., Maget, P., and Verdoolaege, G.: Experimental characterization of $E \times B$ staircases in Tore Supra plasmas. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Hornung, G., Shabbir, A., and Verdoolaege, G.: Bayesian inference of plasma turbulence properties from reflectometry measurements. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Hornung, G., Shabbir, A., and Verdoolaege, G.: Bayesian inference of plasma turbulence properties from reflectometry measurements. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Hornung, G., Shabbir, A., and Verdoolaege, G.: Bayesian inference of the properties of plasma turbulence from reflectometry measurements. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Horvath, L., Papp, G., Pokol, G., Lauber, P. W., Gabor, P., Gude, A., Igochine, V. G., and ASDEX Upgrade Team: Experimental investigation of the radial structure of energetic particle driven modes. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Horvath, L., Papp, G., Pokol, G. I., Lauber, P., Por, G., Gude, A., Igochine, V., and ASDEX Upgrade Team: Fast changes in the mode structure of chirping energetic particle driven modes. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Höschen, T., Zhao, P., Han, Y., Coenen, J., Riesch, J., and Neu, R.: Fracture behaviour of tungsten wire for use as rein-

forcement in tungsten fibre-reinforced tungsten composites. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Howard, J., Michael, C., Thorman, A., Lester, R., Chen, H., Chung, J., Allen, S., Ford, O., Wolf, R. C., Silburn, S., and Sharples, R.: Spectro-polarimetric optical systems for imaging plasma internal fields, structures and flows. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Huber, A., Bernert, M., Brezinsek, S., Sergienko, G., Groth, M., Beurskens, M. N. A., Carralero, D., Eich, T., Guillemaut, C., Huber, V., Jachmich, S., Järvinen, A., Joffrin, E., Kallenbach, A., Lang, P., Linsmeier, C., Matthews, G. F., Meigs, A. G., Mertens, P., Reimold, F., Schweinzer, J., Stamp, M. F., Viezzzer, E., Wiesen, S., Wischmeier, M., Zohm, H., JET Contributors, and ASDEX Upgrade Team: Comparative H-mode density limit studies in JET and AUG (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Huber, T. K., Breitkreutz, H., Petry, W., Reiter, C., Elgeti, S., Burkes, D. E., Casella, J. A., Casella, A. M., Smith, F. N., and Wachs, D. M.: The Thermal Properties of Fresh and Spent U-MO Fuels: an Overview. (European Research Reactor Conference (RRFM 2015), 2015-04-19 to 2015-04-25, Bucharest).

Igitkhanov, Y., Day, C., Lang, P. T., and Plöckl, B.: Assessment of Pumping Requirements in DEMO Reactor. (22nd Topical Meeting on the Technology of Fusion Energy (TOFE 2016), 2016-08-21 to 2016-08-25, Philadelphia, PA).

Iglesias, D., Plaum, B., Kasperek, W., Hirsch, M., and Hirth, T.: Preliminary study of ECE imaging concept for W7-X, using the Talbot effect in rectangular waveguides. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Igochine, V., Classen, I., Günter, S., Gude, A., Lackner, K., Maraschek, M., McDermott, R. M., Sertoli, M., Yu, Q., and ASDEX Upgrade Team: NTM seeding by strong internal events at different β_N in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Igochine, V., Piovesan, P., Lauber, P., Strumberger, E., Suttrop, W., Yadykin, D., Bogomolov, A., Bolzonella, T., Classen, I. G. J., Dunne, M., Gude, A., Maraschek, M., Marrelli, L., McDermott, R., Reich, M., and ASDEX Upgrade Team: Beta limit and plasma response to $n=1$ perturbations in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Ikeda, K., Agostinetti, P., Brombin, M., Fantz, U., Geng, S., Kaneko, O., Kisaki, M., Nagaoka, K., Nakano, H., Osakabe, M., Sartori, E., Serianni, G., Takeiri, Y., Tsumori, K., Veltri, P., Wimmer, C., and Wunderlich, D.: Recent Studies of Hydrogen Negative Ion Source and Beam Production for NBI in Large Helical Device. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Ikeda, K., Wunderlich, D., Fantz, U., Heinemann, B., Kisaki, M., Nagaoka, K., Nakano, H., Osakabe, M., Tsumori, K., Kaneko, O., and Takeiri, Y.: Installation of Spectrally Selective Imaging System in RF Negative Ion Source. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Ismailov, R. E., Aleynikov, P., and Konovalov, S. V.: Dreicer mechanism of runaway electron generation in presence of high-Z impurities. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Ivanova-Stanik, I., Aho-Mantila, L., Wischmeier, M., Zagórski, R., and JET Contributors: COREDIV and SOLPS numerical simulations of the nitrogen seeded JET ILW L-mode discharges. (15th International Workshop on Plasma Edge Theory in Fusion Devices (PET15), 2015-09-09 to 2015-09-11, Nara).

Ivanova-Stanik, I., Zagorski, R., Bernert, M., Kallenbach, A., and ASDEX Upgrade Team: COREDIV modeling of krypton seeding at the ASDEX Upgrade tokamak. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Jachmich, S., Drewelow, P., Gerasimov, S., Koslowski, H.-R., Kruezi, U., Lehnen, M., Reux, C., Riccardo, V., and JET Contributors: Disruption mitigation at JET using massive gas injection. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Jachmich, S., Drewelow, P., Gerasimov, S., Kruezi, U., Lehnen, M., Riccardo, V., and JET Contributors: Disruption mitigation experiments at JET in support of ITER. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Jachmich, S., Drewelow, P., Kruezi, U., Lehnen, M., Riccardo, V., Gerasimov, S., and Reux, C.: Disruption mitigation experiments at JET in support of ITER. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Jacob, W., Gao, L., Schwarz-Selinger, T., Balden, M., Meisl, G., and Oberkofler, M.: Sputtering of W:N Model Films by

Deuterium Plasma. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Jacob, W., Sugiyama, K., Balden, M., Brandt, C., Doerner, R. P., Kreter, A., Linsmeier, C., Möller, S., Oberkofler, M., Rasinski, M., Schwarz-Selinger, T., Steffens, J., Unterberg, B., and Toussaint, U. von: RAFM Steels as an Option for a Plasma-facing Material at the First Wall of Demo. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Jacobsen, A. S., Salewski, M., Geiger, B., Stagner, L., Eriksson, J., Nielsen, S. K., Heidbrink, W. W., Korsholm, S. B., Leipold, F., Rasmussen, J., Stejner, M., Weiland, M., and ASDEX Upgrade Team: Determining fast-ion velocity-space distribution functions using velocity-space tomography. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Jacquot, J., Bobkov, V., Colas, L., Heuraux, S., Krivska, A., Lu, L., and Noterdaeme, J.-M.: Full wave propagation modelling in view to integrated ICRH wave coupling/RF sheaths modelling. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Jacquot, J., D'Inca, R., Crombe, K., Fischer, F., Fünfgelder, H., Faugel, H., Ochoukov, R., Siegl, G., Heuraux, S., Devaux, S., Moritz, J., Faudot, E., Louche, F., Van Eester, D., and Noterdaeme, J.-M.: First experimental results on the IShTA test bed. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Jaksic, N., Scarabosio, A., and Meister, H.: Pressure gauge filament for neutral gas density measurement using alternating current as source power. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Jakubowski, M.: Experimental understanding of the interplay between magnetic topology and plasma-wall interactions. (597th Wilhelm und Else Heraeus Seminar "Stochasticity in Fusion Plasmas," 2015-09-10 to 2015-09-12, Bad Honnef).

Jakubowski, M., Kirk, A., Mordijk, S., Suttorp, W., Tanaka, K., Viezz, E., Wolfrum, E., Dinklage, A., Hidalgo, C., ASDEX Upgrade Team, MAST Team, LHD Team, and EUORfusion MST1 Team: Effect of resonant magnetic perturbations on pump-out in L-mode and H-mode plasmas. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Jakubowski, M., König, R., Pedersen, T. S., Biedermann, C., Baldzuhn, J., Bozhenkov, S., Drews, P., Effenberg, F., Endler, M., Fellinger, J., Hathiramani, D., Hölbe, H., Klose, S., Krychowiak, M., Liang, Y., Neubauer, O., Niemann, H., Otte, M., Stephey, L., Schmitz, O., Wurden, G., and W7-X Team: Scrape-off layer physics in the initial campaign of Wendelstein 7-X. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Janký, F., Fable, E., Treutterer, W., Zohm, H., and Rapson, C. J.: Simulation of burn control for DEMO using ASTRA coupled with Simulink. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Järvinen, A., Brezinsek, S., Giroud, C., Groth, M., Guillemaut, C., Belo, P., Corrigan, G., Drewelow, P., Harting, D., Huber, A., Lawson, K., Lipschultz, B., Maggi, C., Matthews, G. F., Meigs, A. G., Moulton, D., Stamp, M. F., Wiesen, S., and JET Contributors: Interpretation of partially detached divertor operation with and without impurity seeding in JET with EDGE2D-EIRENE. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Jasper, B., Coenen, J. W., Bram, M., Linsmeier, C., Riesch, J., and Höschen, T.: Powder Metallurgical Tungsten Fiber-Reinforced Tungsten. (20. Symposium Verbundwerkstoffe und Werkstoffverbunde, 2015-07-01 to 2015-07-03, Wien).

Jasper, B., Coenen, J. W., Du, J., Hoeschen, T., Schoenen, S., Riesch, J., Neu, R., and Linsmeier, C.: Powder Metallurgical Tungsten Fiber-reinforced Tungsten. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Jasper, B., Coenen, J. W., Riesch, J., Höschen, T., and Linsmeier, C.: Powder metallurgical tungsten fiber-reinforced tungsten (W_f/W). (DGM Symposium, 2015-07-01 to 2015-07-03, Vienna).

Jasper, B., Coenen, J., Riesch, J., Höschen, T., and Linsmeier, C.: Hot Isostatic Pressed Tungsten Fiber-Reinforced Tungsten. (79th Annual Meeting of the DPG and DPG-Frühjahrstagung (Spring Meeting) of the Condensed Matter Section (SKM), 2015-03-15 to 2015-03-20, Berlin).

Jaulmes, F., Geiger, B., Odstrčil, T., Weiland, M., Salewski, M., Jacobsen, A. S., Rasmussen, J., Stejner, M., Nielsen, S. K., Westerhof, E., and ASDEX Upgrade Team: Numerical and experimental study of the redistribution of energetic and impurity ions by sawteeth in ASDEX Upgrade experiments. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Junghanns, P., Boscary, J., Stadler, R., and Mendelevitch, B.: Local copper coating of the connectors of the divertor target elements of Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Kallenbach, A., Bernert, M., Dux, R., McDermott, R. M., Lang, P. T., Wischmeier, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Power and particle exhaust at high P/R in ASDEX Upgrade. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Kalupin, D., Asunta, O., Coelho, R., Coster, D., Ferreira, J., Figueiredo, A., Gal, K., Ivanova-Stanik, I., Jonnson, T., Owsiak, M., Palak, B., Schneider, M., Stankiewicz, R., Strand, P., and ITM-TF Contributors: Predictive simulations of reactor-scale plasmas fuelled with multiple pellets with the European Transport Simulator. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Kalvin, S., Veres, G., Bernert, M., and Meister, H.: Different methods to determine the total Prad for fusion devices. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Kang, K. S.: Developing simulation codes on super-computer. (Seminar at the Department of Mathematics, POSTECH, 2015-07-01, Pohang).

Kang, K. S.: Introduction to the Max-Planck Institute for Plasma Physics. (Korea University, 2015-07-03, Seoul).

Kang, K. S.: Modern Super-computer, Optimization, and HLST. (Seminar at the Department of Mathematics, POSTECH, 2015-07-01, Pohang).

Kang, K. S.: The parallel multigrid and domain decomposition methods. (Yonsei University, 2015-06-23, Seoul).

Kang, K. S.: Scalable implementation of the parallel multigrid method on massively parallel computers. (2015 SCENT HPC Summer School, 2015-07-15 to 2015-07-17, Gwangju).

Kang, K. S.: Why Poisson Solver? (Introduction numerical scheme for PDE based simulations). (Sino-German Symposium on Attosecond Photonics 2015, 2015-11-16 to 2015-11-18, Shanghai).

Kang, K., and Militello, F.: Multigrid Solver in BOUT++. (Computational Methods in Applied Mathematics (CMAM-7), 2016-07-31 to 2016-08-06, Jyväskylä).

Kantor, M., and Donne, A. J. H.: Thomson scattering with multi-pass intra-cavity laser system towards the study of fast changing structures in fusion plasma. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Kappatou, A., Angioni, C., Sips, A. C. C., Lerche, E., Pütterich, T., Dunne, M., Neu, R., Ryter, F., Giroud, C., Challis, C., Hobirk, J., Nunes, I., Tsallas, M., Cave-Ayland, K., Valcarcel, D. F., Menmuir, S., Lebschy, A., Viezzer, E., McDermott, R., Delabie, E., Frassinetti, L., Stefanikova, E., Saarelma, S., EUROfusion MST1 Team, ASDEX Upgrade Team, and JET Contributors: The effect of helium on plasma confinement at ASDEX Upgrade and JET. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Kappatou, A., McDermott, R. M., Angioni, C., Pütterich, T., Dux, R., Dunne, M. G., Neu, R., Lebschy, A., Viezzer, E., Cavedon, M., EUROfusion MST1 Team, and ASDEX Upgrade Team: The behavior of helium in fusion plasmas. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Kappatou, A., McDermott, R. M., Angioni, C., Pütterich, T., Dux, R., Jaspers, R. J. E., Viezzer, E., Cavedon, M., Fischer, R., Willensdorfer, M., Tardini, G., and ASDEX Upgrade Team: Helium transport investigations at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Kapper, G., Kasilov, S. V., Kernbichler, W., Martitsch, A. F., and Marushchenko, N. B.: Impact of finite collisionality effects on electron cyclotron current drive in stellarators. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Kapper, G., Kernbichler, W., Kasilov, S. V., and Marushchenko, N. B.: Modeling of electron cyclotron current drive for finite collisionality plasmas in Wendelstein 7-X. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Kapser, S., and Manhard, A.: Hydrogen Diffusion in Tungsten near Room Temperature. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Kapser, S., Manhard, A., and Toussaint, U. von: Deuterium permeation measurements on tungsten using ion-beam-based detection. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Kapser, S., Manhard, A., and Toussaint, U. von: Deuterium permeation of tungsten near room temperature investigated using a hydride-forming getter layer. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Kapser, S., Manhard, A., and Toussaint, U. von: Ion-beam-based diffusion measurements of deuterium in tungsten near room temperature. (11th International Conference on Diffusion in Solids and Liquids (DSL 2015), 2015-06-22 to 2015-06-26, Munich).

Karhunen, J., Groth, M., Heliste, P., Hakola, A., Viezzer, E., Pütterich, T., Coster, D., Potzel, S., Carralero, D., Guimaraes, L., Nikolaeva, V., and ASDEX Upgrade Team: Measurement of N^+ flows in the high-field side scrape-off layer of ASDEX Upgrade with different degrees of inner divertor detachment. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Karhunen, J., Hakola, A., Groth, M., Viezzer, E., Pütterich, T., Heliste, P., Makkonen, T., and ASDEX Upgrade Team: Nitrogen as a spectroscopic tracer for measuring plasma flows in the high-field side SOL of ASDEX Upgrade. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Käsemann, C.-P., Grois, E., Rott, M., Arden, N., Peglau, M., and ASDEX Upgrade Team: Herausforderungen für die Energieversorgung von Fusions-Experimenten und langfristige Perspektiven. (10th Transformer-Life-Management Conference, 2016-09-26 to 2016-09-27, Königswinter).

Käsemann, C.-P., Grois, E., Stobbe, F., Rott, M., Klaster, K., and ASDEX Upgrade Team: Pulsed Power Supply System of the ASDEX Upgrade Tokamak Research Facility. (15th IEEE International Conference on Environment and Electrical Engineering (EEEIC), 2015-06-10 to 2015-06-13, Rome).

Käsemann, C.-P., Kallenbach, A., Stober, J., Noterdaeme, J.-M., Hopf, C., Rott, M., Goldstein, I., and ASDEX Upgrade Team: Extension of heating and pulse power capabilities at ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Kasperek, W., Stober, J., Maraschek, M., Doelman, N., Monaco, F., Eixenberger, H., Wagner, D., Reich, M., Schubert, M., Grünwald, G., Müller, S., Schütz, H., Klop, W., Brand, H., van den, Bongers, W., Lechte, C., Plaum, B., Munk, R., Wu, Z., Erckmann, V., Petelin, M., and ASDEX Upgrade Team: NTM stabilization on ASDEX Upgrade by alternating O-point heating using FADIS. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Kaveeva, E., Rozhansky, V., Senichenkov, I., Sytova, E., Veselova, I., Voskoboinikov, S., Coster, D., Bonnin, X., Pitts, R. A., Dekeyser, W., and Kukushkin, A. S.: SOLPS-ITER modelling of the ITER edge plasma with drifts and currents. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Kawamura, G., Kobayashi, M., Dai, S., Mukai, K., Sano, R., Peterson, B., and Feng, Y.: Three-dimensional transport analysis of plasma, neutrals and impurities in LHD peripheral regions with impurity gas-puff. (15th International Workshop on Plasma Edge Theory in Fusion Devices (PET15), 2015-09-09 to 2015-09-11, Nara).

Kazakov, Y. O., Ongena, J., Messiaen, A., Van Eester, D., Louche, F., Schweer, B., Vervier, M., Hartmann, D. A., Wolf, R. C., Birus, D., Borsuk, V., Neubauer, O., Offermans, G., Dumont, R., and W7-X Team: ICRH as a Dedicated Fast-Ion Source for W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Kazakov, Y. O., Ongena, J., Van Eester, D., Lerche, E., Messiaen, A., Bilato, R., Dumont, R., Johnson, T., Mantsinen, M., Wright, J. C., Wukitch, S. J., Lin, Y., and Porkolab, M.: Applications of Three-Ion ICRF Heating for ITER. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Kembleton, R., Lux, H., Morris, J., Kovari, M., Federici, G., Wenninger, R., Zohm, H., and Waldon, C.: The consequences of fundamental design choices for DEMO. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Kleiber, R.: Kernfusion. (EMAU – Studientage, 2015-05-27, Greifswald).

Kleiber, R.: Latest developments of the EUTERPE code. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Kleiber, R., Borchardt, M., Cole, M., Feher, T., Hatzky, R., Könies, A., Mishchenko, A., and Riemann, J.: Gyrokinetic simulations for tokamak and stellarators. (7th IAEA Technical Meeting on Theory of Plasma Instabilities, 2015-03-04 to 2015-03-06, Frascati).

Kleiber, R., Borchardt, M., Drevlak, M., Kemnitz, B., Kleiber, A., Könies, A., and Riemann, J.: Kernfusion – Forschung für die Energie der Zukunft. (1. Schülerkongress Klima, Energie & Nachhaltigkeit, “Klimawandel: Vermeiden oder Anpassen?”, 2016-19-07, Hamburg).

Klepper, C. C., Lasa, A., Borodin, D., Kirschner, A., Groth, M., Jacquet, P., Bobkov, V., and Colas, L.: Evaluating localized surface erosion from rf-sheath interactions in JET with an ITER-like wall. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Klinger, T.: The first operation of the superconducting optimized stellarator fusion devices Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Klinger, T.: First operation of Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Klinger, T.: Fusion von Wasserstoff – Energie der Zukunft oder ewiger Traum? (DPG-Frühjahrstagung des Fachverbandes Hadronen und Kerne sowie des Arbeitskreises Beschleunigerphysik, 2016-03-14 to 2016-03-18, Darmstadt).

Klinger, T.: Fusion von Wasserstoff – Energie der Zukunft oder ewiger Traum? (Vortrag Sternwarte, 2016-03-23, Berlin).

Klinger, T.: Fusion von Wasserstoff – Energie der Zukunft oder ewiger Traum? (XLAB Science Festival 2016, 2016-01-25 to 2016-01-26, Göttingen).

Klinger, T.: Fusion von Wasserstoff. Sonnenenergie der Zukunft oder ewiger Traum? (Krupp Kolleg – Abendvortrag im Rahmen des ISHW, 2015-10-05 to 2015-10-09, Greifswald).

Klinger, T.: Fusionsphysik. (SS 2015. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Klinger, T.: Hochtemperatur-Plasmaphysik. (WS 2014/2015. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Klinger, T.: International Helmholtz Graduate School on Plasma Physics – HEPP. (WS 2015/2016. Kolloquium, Ernst-Moritz-Arndt-Universität Greifswald).

Klinger, T.: International Helmholtz Graduate School on Plasma Physics – HEPP. (SS 2016. Kolloquium, Ernst-Moritz-Arndt-Universität Greifswald).

Klinger, T.: The long way to steady state fusion plasmas – the superconducting stellarator devices Wendelstein 7-X. (Kolloquiumsvortrag, 2016-04-25, Bielefeld).

Klinger, T.: The long way to steady-state fusion plasma – the superconducting stellarator device Wendelstein 7-X. (Kolloquium Universität Heidelberg, 2015-11-20, Heidelberg).

Klinger, T.: The long way to steady state fusion plasmas – the superconducting stellarator devices Wendelstein 7-X. (Kolloquiumsvortrag am Paul-Scherer-Institut (PSI), 2016-05-19, Villigen).

Klinger, T.: The long way to steady state fusion plasmas – the superconducting stellarator devices W7-X. (Innsbruck Physics Colloquium Summer 2016, 2016-06-07, Universität Innsbruck).

Klinger, T.: The long way to steady state fusion plasmas – the superconducting stellarator devices W7-X. (Kolloquium CERN, 2016-06-16, Geneva).

Klinger, T.: The long way to steady state fusion plasmas – the superconducting stellarator devices W7-X. (Vortrag, 2016-06-08, Universität Frankfurt).

Klinger, T.: Overview of the status and prospects of W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Klinger, T.: Plasma Turbulence. (SS 2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Klinger, T.: Was verbirgt sich hinter Wendelstein? (24h-Vorlesung an der Ernst-Moritz-Arndt-Universität, 2015-11-13, Greifswald).

Klinger, T.: Zuverlässigkeit in der Experimentalphysik. (WS 2015/2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Klinger, T., and W7-X Team: 15 years of construction of Wendelstein 7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Klinger, T., and W7-X Team: The first plasmas of the optimized superconducting stellarator Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Klinger, T., and W7-X Team: The optimized superconducting stellarator Wendelstein 7-X. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Klose, S., Freundt, S., Hathiramani, D., Laux, M., Endler, M., König, R., Pedersen, T. S., and W7-X Team: Design and Results of the Limiter Langmuir Probe Diagnostics of W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Knauer, J., Kornejew, P., Trimino Mora, H., Hirsch, M., and W7-X Team: A New Dispersion Interferometer at the Stellarator Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Knowlton, S. F., Hartwell, G. J., Maurer, D. A., Marushchenko, N. B., Turkin, Y., and Bigelow, T.: Electron cyclotron ray tracing and absorption predictions for compact toroidal hybrid plasmas using TRAVIS. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Kobayashi, S., Nagasaki, K., Stange, T., Hada, K., Mizuchi, T., Okada, H., Minami, T., Kado, S., Yamamoto, S., Ohshima, S., Konoshima, S., Nakamura, Y., Toi, K., and Suzuki, Y.: Rapid NBI plasma initiation using pre-ionization method by non-resonant microwave injection in Heliotron J. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Koch, F., Brinkmann, J., Siefken, U., Florko, I., Elgeti, S., Matern, G., Wiltner, A., Calvo, A., and García-Rosales, C.: Investigations on the technical production of selfpassivating tungsten alloys. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Kocsis, G., Alonso, A., Biedermann, C., Cseh, G., Dinklage, A., Jakubowski, M., König, R., Krychowiak, M., Otte, M., Pedersen, T. S., Szepesi, T., Zolezník, S., and W7-X Team: Investigation of edge filament dynamics in W7-X limiter plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Kocsis, G., Lang, P. T., Cseh, G., Dunne, M., Horvath, L., Mertens, V., Meyer, H., Plöckl, B., Pokol, G. I., Pölöskei, P., Sieglin, B., Szepesi, T., Viezzer, E., and ASDEX Upgrade Team: Reliability study of pellet ELM pace making. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Koechl, F., Albanese, R., Ambrosino, R., Corrigan, G., Garzotti, L., Kim, H.-S., Lönnroth, J., Lang, P. T., Luna, E. de la, Mattei, M., Maviglia, F., McDonald, D. C., Parail, V., Rimini, F., Saibene, G., Solano, E. R., Valovic, M., Voitsek-hovitch, I., Webster, A., and Wiesen, S.: S8 Modelling of ELM mitigation at JET. (27th Symposium on Plasma Physics and Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Koenen, C., Siart, U., Eibert, T. F., Happel, T., Conway, G. D., and Stroth, U.: Development of an Actively Steered Phased Array Antenna for Doppler Reflectometry. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Kogut, D., Douai, D., Baldwin, M., Doerner, R., Sinelnikov, D., Mamedov, N., Kurnaev, V., Becker, H.-W., and Schwarz-Selinger, T.: Hydrogen isotope exchange in beryllium: modelling and experiment. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Köhn, A.: Fusion Research. (SS 2016. Vorlesung, Universität Stuttgart).

Köhn, A., Chusov, A., Höfel, U., Holzhauer, E., Morales, R., Wolf, S., and Ramisch, M.: Electron Bernstein wave heating at the stellarator TJ-K. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Köhn, A., Holzhauer, E., Leddy, J., Ramisch, M., Wolf, S., Thomas, M., and Vann, R. G. L.: Microwave-plasma interactions (not only) in a low-temperature stellarator. (4th Kyushu Workshop on Solenoid-free RF-only ST Plasmas, 2016-03-24 to 2016-03-25, Kyushu).

Köhn, A., Holzhauer, E., Ramisch, M., Wolf, S., Thomas, M., Vann, R., and Leddy, J.: Microwave heating (not only) in low-temperature stellarators. (Microwaves in Plasmas and Beams 2015, 2015-12-17 to 2015-12-18, York).

Köhn, A., Thomas, M., Snicker, A., Maj, O., Holzhauer, E., Vann, R., Leddy, J., and Poli, E.: The perturbing effect of density fluctuations on a microwave beam. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Köhn, A., Thomas, M., Snicker, A., Maj, O., Vann, R., Holzhauer, E., Leddy, J., and Poli, E.: Perturbing microwave beams by plasma density fluctuations. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Köhn, A., Thomas, M., Vann, R., Holzhauer, E., and Leddy, J.: Influence of density fluctuations on microwave propagation. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Kolesnichenko, Y. I., Könies, A., Lutsenko, V. V., Drevlak, M., Turkin, Y., and Helander, P.: Global m=n modes and their destabilization in forthcoming NBI experiments on Wendelstein 7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Könies, A., Kleiber, R., Feher, T., Borchardt, M., and Mishchenko, A.: CKA-EUTERPE: A kinetic MHD model for nonlinear wave particle interaction. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

König, R., Feng, Y., Pedersen, T. S., and W7-X Team: Physics of the stellarator island divertor. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

König, R., and W7-X Diagnostics Team: The Set of Diagnostics for the First Operation Campaign of the Wendelstein 7-X Stellarator. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

König, R., and W7-X Team: Nuclear Fusion and the Wendelstein 7-X Stellarator Experiment at the Max-Planck-Institute for Plasma Physics in Greifswald, Germany (Seminarvortrag an der Universität Stettin, Abteilung für Physik, 2015-07-09, Stettin).

Kormann, K.: Solving the 6D Vlasov Equation in Tensor Train Format. (European Numerical Mathematics and Advanced Applications (ENUMATH 2015), 2015-09-14 to 2015-09-18, Ankara).

Kormann, K., Reuter, K., and Sonnendrücker, E.: Parallelization Strategies for a Semi-Lagrangian Vlasov Code. (Platform for Advanced Scientific Computing Conference 2016 (PASC16), 2016-06-08 to 2016-06-10, Lausanne).

Kornejew, P., Knauer, J., Trimino Mora, H., and Hirsch, M.: First Operation of the Dispersion Interferometer at the Stellarator Wendelstein 7-X. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Krämer-Flecken, A., Prisiazhniuk, D., and Manz, P.: Methods for Observation of Turbulence Interaction in Case of Geodesic Acoustic Modes. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Krämer-Flecken, A., Windisch, T., and Hirsch, M.: Study of turbulence rotation and local τ using Correlation Reflectometry at W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Krat, S., Mayer, M., Toussaint, U. von, Coad, P., Widdowson, A., Gasparyan, Y., Pisarev, A., and JET Contributors: Beryllium film deposition in remote areas of the JET divertor during the 2011-2012 ITER-like wall campaign. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Kraus, M.: On Degenerate Lagrangians, Noncanonical Hamiltonians and Dirac Constraints. (2nd Geometric Algorithms and Methods for Plasma Physics Workshop (GAMPP), 2016-09-12 to 2016-09-16, Garching).

Kraus, M.: Geometric Finite-Element Particle-in-Cell Methods for the Vlasov-Maxwell System. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Kraus, M.: Geometric Integration of Degenerate Lagrangian Systems. (Waseda University, School of Science and Engineering, 2015-04-14, Tokyo).

Kraus, M.: Geometric Numerical Integration I. (SS 2016. Vorlesung, Waseda University, Tokyo).

Kraus, M.: Geometric Numerical Integration of Ordinary Differential Equations. (WS 2015/2016. Vorlesung, Technische Universität München).

Kraus, M.: Short Course on Geometric Numerical Integration of ODEs. (SS 2015. Vorlesung, Waseda University, Tokyo).

Kraus, M.: Strukturerhaltende Numerik in der Plasmaphysik. (Bayerische Akademie der Wissenschaften, 2016-01-14, München).

Kraus, M.: Towards Geometric Particle-in-Cell Schemes for Gyrokinetics. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Kraus, M., Kormann, K., Sonnendrücker, E., and Morrison, P. J.: Structure-preserving finite-element particle-in-cell methods for the Vlasov-Maxwell system. (2nd Geometric Algorithms and Methods for Plasma Physics Workshop (GAMPP), 2016-09-12 to 2016-09-16, Garching).

Kraus, M., and Maj, O.: Variational Integrators for Non-variational PDEs. (International Conference on Scientific Computation and Differential Equations (SciCADE 2015), 2015-09-14 to 2015-09-18, Potsdam).

Kraus, M., Maj, O., and Yoshimura, H.: Geometric Integration of Degenerate Lagrangian Systems. (Numerical Solution of Differential and Differential-Algebraic Equations (NUMDIF-14), 2015-09-07 to 2015-09-11, Halle).

Kraus, W., Fantz, U., Heinemann, B., and Wunderlich, D.: Concepts of Magnetic Filter Fields in Powerful Negative Ion Sources for Fusion. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Kraus, W., Fantz, U., Heinemann, B., Schiesko, L., Wimmer, C., and NNBI Team: Performance of the BATMAN RF Source with a Large Racetrack Shaped Driver. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Krawczyk, N., Czarnecka, A., Fornal, T., Jablonski, S., Kaczmarczyk, J., Kubkowska, M., Thomsen, H., and Biedermann, C.: Commissioning and first operation of the pulse-height analysis diagnostic on Wendelstein 7-X stellarator. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Krebs, I., Jardin, S. C., Meshcheriakov, D., Günter, S., Igochine, V., Ferraro, N., and Höglund, M.: Simulations of sawtooth instabilities in ASDEX Upgrade using the 3D non-linear two-fluid MHD code M3D-C. (2015 International Sherwood Fusion Theory Conference, 2015-03-16 to 2015-03-18, New York, NY).

Krieger, K., Brida, D., Gao, Y., Gunn, J., Hakola, A., Herrmann, A., Lunt, T., Potzel, S., Sieglin, B., and ASDEX Upgrade Team: Melt damage at leading edges of PFCs and its avoidance by edge shadowing. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Krieger, K., Coenen, J. W., Greuner, H., Gunn, J. P., Hakola, A., Herrmann, A., Loewenhoff, T., Lunt, T., Pitts, R. A., Potzel, S., Sieglin, B., Temmermand, G. D., and ASDEX Upgrade Team: Influence of inhomogeneous power flux distribution at tungsten divertor target plates on power handling capabilities. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Krieger, K., Coenen, J. W., Gunn, J. P., Hakola, A., Lunt, T., Potzel, S., and ASDEX Upgrade Team: Efficiency of surface shaping for protection of leading edges in the divertor of ASDEX Upgrade from direct plasma exposure (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Krieger, K., and JET Contributors: Key results and future directions of the JET fusion research programme. (24th International Conference Nuclear Energy for New Europe (NENE 2015), 2015-09-14 to 2015-09-17, Portoroz).

Krivoska, A., Bobkov, V., Colas, L., Milanesio, D., Jacquot, J., Ochoukov, R., and ASDEX Upgrade Team: Estimation of sheath potentials in front of ASDEX Upgrade ICRF antenna with SSWICH asymptotic code. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Kruezi, U., Alegre, D., Brezinsek, S., Drenik, A., Klepper, C. C., Lipschultz, B., Matthews, G. F., Oberkofler, M., Omolayo, S., and JET Contributors: Neutral gas analysis for deuterium-tritium plasma operation at JET. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Krychowiak, M., Adnan, A., Alonso, A., Andreeva, T., Baldzuhn, J., Barbui, T., Beurskens, M., Biel, W., Biedermann, C., Blackwell, B., Bosch, H.-S., Bozhenkov, S., Brakel, R., Bräuer, T., Brotas de Carvalho, B., Burhenn, R., Buttenschön, B., Cappa, A., Cseh, G., Czarnecka, A., Dinklage, A., Dzikowicka, A., Effenberg, F., Endler, M., Erckmann, V., Estrada, T., Ford, O., Fornal, T., Fuchert, G., Geiger, J., Grulke, O., Harris, J. H., Hartfuß, H.-J., Hartmann, D., Hathiramani, D., Hirsch, M., Höfel, U., Jablonski, S., Jakubowski, M., Kaczmareczyk, J., Klänger, T., Klose, S., Knauer, J., Kocsis, G., König, R., Kornejew, P., Krämer-Flecken, A., Krawczyk, N., Kremeyer, T., Ksiazek, I., Kubkowska, M., Langenberg, A., Laqua, H. P., Laux, M., Lazerson, S., Liang, Y., Lorenz, A., Marchuk, A. O., Marsen, S., Moncada, V., Naujoks, D., Neilson, H., Neubauer, O., Neuner, U., Niemann, H., Oosterbeek, J. W., Otte, M., Paßlant, N., Pasch, E., Pedersen, T. S., Pisano, F., Rahbarnia, K., Ryc, L., Schmitz, O., Schmuck, S., Schneider, W., Schröder, T., Schuhmacher, H., Schweer, B., Standley, B., Stange, T., Stephey, L., Svensson, J., Szabolics, T., Szepesi, T., Thomsen, H., Travere, J.-M., Trimino Mora, H., Tsuchiya, H., Weir, G. M., Wenzel, U., Werner, A., Wiegel, B., Windisch, T., Wolf, R., Wurden, G. A., Zhang, D., Zimbal, A., Zolezník, S., and W7-X Team: Overview of diagnostic performance and results for the first operation phase in Wendelstein 7-X. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Ksiazek, I., Fornal, T., Kaczmareczyk, J., Figacz, W., Burhenn, R., Kubkowska, M., Renard, S., and W7-X Team: Concept of C/O monitor diagnostic for stellarator W7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Kubkowska, M., Czarnecka, A., Figacz, W., Jabłonski, S., Kaczmareczyk, J., Krawczyk, N., Ryc, L., Biedermann, C., König, R., and Weller, A.: Laboratory tests of the pulse height analysis system for Wendelstein 7-X. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Kurki-Suonio, T., Särkimäki, K., Äkäslompolo, S., Varje, J., Liu, Y., Sipilä, S., Asunta, O., Hirvijoki, E., Snicker, A., Terävä, J., Cavinato, M., Parail, V., and Saibene, G.: Protecting ITER walls: fast ion power loads in 3D magnetic field. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Kurskiev, G., Gusev, V., Sakharov, N., Minaev, V., Petrov, Y., Patrov, M., and Wagner, F.: Globus-M plasma physics research the way to the fusion power application. (Energy, Science and Technology Conference 2015 (EST), 2015-05-20 to 2015-05-22, Karlsruhe).

Kurzan, B., Giannone, L., and ASDEX Upgrade Team: Electron density and temperature structures during edge localized modes in the edge plasma of ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Kwak, S., Svensson, J., Brix, M., Bawa'aneh, M. S., Ghim, Y.-c., and JET Contributors: Lithium BES Data Analysis via Bayesian Modelling at JET. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Kwak, S., Svensson, J., Brix, M., and Ghim, Y.-c.: Bayesian modeling of JET Li-BES for edge electron density profiles using Gaussian processes. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Labit, B., Canal, G. P., Duval, B. P., Lipschultz, B., Lunt, T., Nespoli, F., Reimerdes, H., Sheikh, U., Theiler, C., Tsui, C., Verhaegh, K. H. A., Vijvers, W. A. J., and Eurofusion MST1 Team: Experimental Studies of the Snowflake Divertor in TCV. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Labit, B., Canal, G. P., Duval, B. P., Lipschultz, B., Lunt, T., Nespoli, F., Reimerdes, H., Sheikh, U., Theiler, C., Tsui, C., Verhaegh, K. H. A., Vijvers, W. A. J., and EUROfusion MST1 Team: Experimental Studies of the Snowflake Divertor in TCV. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Laggner, F. M., Birkenmeier, G., Dunne, M., Fischer, R., Manz, P., Viezzner, E., Willensdorfer, M., Wolfrum, E., Aumayr, F., and ASDEX Upgrade Team: The effects of triangularity and main ion species on the inter-ELM profile evolution in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Laggner, F. M., Birkenmeier, G., Dunne, M. G., Fischer, R., Viezzner, E., Willensdorfer, M., Wolfrum, E., Aumayr, F., and ASDEX Upgrade Team: Comparison of the inter-ELM pedestal profile recovery in plasmas with different main ion species. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Laggner, F. M., Wolfrum, E., Mink, F., Cavedon, M., Dunne, M. G., Birkenmeier, G., Aumayr, F., and ASDEX

Upgrade Team: High frequency magnetic fluctuations correlated with the inter-ELM pedestal recovery. (DPG-Frühjahrsstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Laggner, F. M., Wolfrum, E., Mink, F., Cavedon, M., Dunne, M. G., Manz, P., Birkenmeier, G., Fischer, R., Maraschek, M., Viezzer, E., Willensdorfer, M., Aumayr, F., EUROfusion MST1 Team, and ASDEX Upgrade Team: Inter-ELM pedestal evolution: High frequency magnetic fluctuations correlated with the clamping of the pressure gradient. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Landreman, M., Plunk, G. G., Antonsen Jr., T. M., and Dorland, W.: Universal instability, non-modal amplification, and subcritical turbulence. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Landreman, M., Plunk, G. G., Antonsen, T. M., and Dorland, W.: Universal instability, non-modal amplification, and subcritical turbulence. (2015 International Sherwood Fusion Theory Conference, 2015-03-16 to 2015-03-18, New York, NY).

Landreman, M., Smith, H. M., Mollén, A., and Helander, P.: SFINCS: A flexible tool for advanced stellarator neoclassical computations. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Lang, P. T.: The DEMO pellet transfer system – physics and integration engineering aspects. (WP TFV: Technical Meeting on Pellet Injection Geometries, 2016-09-16, PPP&T Garching).

Lang, P. T.: Pellet paced ELM triggering – Status of the investigations/findings at JET and ASDEX Upgrade. (28th Meeting of the ITPA Pedestal and Edge Physics (PEP) Topical Group, 2015-10-22 to 2015-10-23, Garching).

Lang, P. T.: Pellet pacing physics – Status of the investigations/findings at JET and ASDEX Upgrade. (EUROfusion Science Meeting – ELM Control, 2015-03-04, Culham).

Lang, P. T., Casali, L., Day, C., Dunne, M., Fable, E., Fischer, R., Kardaun, O., Kocsis, G., Kurzan, B., McDermott, R., Mertens, V., Mlynek, A., Plöckl, B., Rapson, C. J., Szepesi, T., Treutterer, W., Viezzer, E., Zohm, H., and ASDEX Upgrade Team: Controlled fuelling of high density scenarios at ASDEX Upgrade in support of ITER and DEMO. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Lang, P. T., Dunne, M., Fable, E., Fischer, R., McDermott, R., Mertens, V., Mlynek, A., Plöckl, B., Rapson, C. J., Treutterer, W.,

Viezzer, E., Zohm, H., and ASDEX Upgrade Team: Controlled operation in the high density H-mode scenario. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Lang, P. T., Frattolillo, A., Igitkhanov, Y., Pegourie, B., and Plöckl, B.: Matter injection in the DEMO fuel cycle: Full task and coverage in the actual WP. (DEMO WP TFV Project Meeting 3, 2015-11-17 to 2015-11-19, CCFE, Abingdon, Oxfordshire).

Lang, P. T., Maingi, R., Mansfield, D. K., McDermott, R., Neu, R., Wolfrum, E., Arredondo Parra, R., Bernert, M., Birkenmeier, G., Diallo, A., Dunne, M., Fable, E., Fischer, R., Geiger, B., Hakola, A., Kocsis, G., Laggner, F., Oberkofler, M., Plöckl, B., Sieglin, B., and ASDEX Upgrade Team: Impact of Lithium pellets on the plasma performance in the all-metal-wall tokamak ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Lang, P. T., Moreno Quiclos , R., Arredondo Parra, R., Plöckl, B., Maingi, R., Mansfield, D. K., Diallo, A., McDermott, R., Neu, R., Wolfrum, E., and ASDEX Upgrade Team: Impact of Lithium on the plasma performance in the all-metal-wall tokamak ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Lang, P. T., Nakano, T., Pegourie, B., Plöckl, B., and Sakurai, S.: Conceptual design of the JT-60SA pellet launching system. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Lang, P. T., Pégourié, B., and Plöckl, B.: Collaboration activities for JT-60SA: Sub-systems development “Matter injection systems”. (4th Research Coordination Meeting, 2015-05-20, JAEA, Naka).

Lang, P. T., Pégourié, B., Plöckl, B., and Nakano, T.: Collaboration activities for JT-60SA: Sub-system development “Pellet injection systems.” (3rd WPSA Project Planning Meeting, 2016-02-15 to 2016-02-17, Napoli).

Lang, P. T., Pégourié, B., Plöckl, B., and Nakano, T.: Conceptual design of the JT-60SA pellet injection system. (2nd WPSA Project Planning Meeting, 2015-02-25, Padova).

Langenberg, A., Pablant, N. A., Marchuk, O., Thomsen, H., Burhenn, R., Svensson, J., and Wolf, R.: Forward Modeling of an X-ray Imaging Crystal Spectrometer within the Minerva Bayesian Analysis Framework. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Langenberg, A., Pablant, N. A., Marchuk, O., Valson, P., Traverso, P., Burhenn, R., Alonso, A., Zhang, D., Buttenschön, B., Svensson, J., Gates, D., Beurskens, M., Wolf, R. C., and W7-X Team: Temporal Evolution of Temperature and Argon Impurity Density Profiles Observed by X-ray Imaging Spectrometer Measurements at Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Langenberg, A., Pablant, N. A., Mardenfeld, M., Marchuk, O., Bertschinger, G., Thomsen, H., Burhenn, R., Gates, D., Neilson, G. H., Wolf, R. C., and W7-X Team: Prospects of X-ray Imaging Spectrometer for Impurity Diagnostic at W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Laqua, H. P.: ECRH and ECCD Experiments at the Wendelstein 7-X Stellarator. (EU-US-JP Workshop on RF-Technology, 2016-09-12 to 2016-09-23, Leinsweiler).

Laqua, H. P.: Plasmawellen und Heizung. (SS 2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Laqua, H. P.: Status of the W7-X ECRH Installation. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Laqua, H. P.: Wendelstein 7-X – An innovative concept for confining a steady-state fusion plasma. (10th Karlsruhe International School on Fusion Technologies, 2016-09-12 to 2016-09-23, Karlsruhe).

Laqua, H. P.: Wendelstein 7-X and the Roadmap to Fusion. (Physikalisches Kolloquium, 2016-04-26, Universität Konstanz).

Laqua, H. P.: Wendelstein 7-X and the Roadmap to Fusion. (Physikalisches Kolloquium, 2016-06-13, Universität Oldenburg).

Laqua, H. P., and W7-X Team: Commissioning and First Plasma Operation at the Wendelstein 7-X Stellarator. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Laqua, H. P., Bluhm, T., Grahl, M., Grün, M., Hennig, C., Holtz, A., Krom, J. G., Kühner, G., Lewerentz, M., Riemann, H., Schacht, J., Spring, A., and Werner, A.: Experiences with the Segment Control System at Wendelstein 7-X Operation. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Laqua, H. P., Braune, H., Erckmann, V., Gantenbein, G., Hirsch, M., Jelonnek, J., Kasparek, W., Lechte, C., Marsen, S., Plaum, B., Preynas, M., Stange, T., Thumm, M., Weißgerber, M.,

Wolf, R. C., and W7-X Team: Commissioning and Test of the ECRH system of Wendelstein 7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Latu, G., Passeron, C., and Högl, M.: Automatic non-regression testing in JOREK. (1st JOREK General Meeting, 2015-05-26 to 2015-05-28, Garching).

Lauber, P., Geiger, B., Maraschek, M., Horvath, L., Papp, G., Dunne, M., Classen, I., Igochine, V., Nikolaeva, V., Guimaraes, L., and ASDEX Upgrade Team: Off-axis NBI-driven energetic particle modes at ASDEX Upgrade. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Lauber, P., Stroth, U., Günter, S., and Manz, P.: Plasmaphysik. (WS 2014/2015. Seminar, Technische Universität München).

Lawson, K. D., Groth, M., Harting, D., Menmuir, S., Reiter, D., Brezinsek, S., Corrigan, G., Drewelow, P., Maggi, C. F., Meigs, A. G., Stamp, M. F., Wiesen, S., and JET Contributors: Inclusion of molecular power loss terms in EDGE2D-EIRENE simulations of JET ITER-like wall L-mode discharges with comparisons of emission profiles. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Lazanyi, N., Garcia-Munoz, M., Nocente, M., Galdon-Quiroga, J., Högl, M., Gabor, P., Poloskei, P. Z., Rodriguez-Ramos, M., Sanchis-Sánchez, L., Pokol, G. I., EUROfusion MST1 Team, and ASDEX Upgrade Team: Experimental investigation of ELM-induced fast-ion losses at the ASDEX Upgrade tokamak. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Lazanyi, N., Garcia-Munoz, M., Zolezník, S., Dunai, D., Por, G., Pokol, G. I., Kovácsik, Á., Rodriguez-Ramos, M., Garcia-Lopez, J., Jimenez-Ramos, M. C., Galdon-Quiroga, J., Sanchis-Sánchez, L., and ASDEX Upgrade Team: Extension of the scintillator-based fast-ion loss detector system in the ASDEX Upgrade Tokamak. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Lazerson, S., Drevlak, M., Bolgert, P., Gates, D., McMillan, M., and W7-X Team: Predictions of Neutral Beam Deposition and Energetic Particle Losses in W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Lazerson, S. A., Otte, M., Bozhenkov, S., Andreeva, T., Gates, D., and Neilson, H.: Error field detection and correction on W7-X.

(20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Lazerson, S. A., Otte, M., Bozhenkov, S., Pedersen, T. S., Bräuer, T., Gates, D., Neilson, H., and W7-X Team: Modelling and analysis of flux surface mapping experiments on W7-X. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Lazerson, S., Otte, M., Wenzel, U., Jakubowski, M., Bozhenkov, S., Andreeva, T., and W7-X Team: Measurement of error fields on W7-X. (15th Coordinated Working Group Meeting, 2016-03-21 to 2016-03-23, Greifswald).

Lebschy, A., Geiger, B., McDermott, R., Cavedon, M., Dunne, M., Fischer, R., Viezzler, E., and ASDEX Upgrade Team: Indirect measurement of the poloidal velocity using charge exchange recombination spectroscopy. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Lebschy, A., McDermott, R., Angioni, C., Cavedon, M., Conway, G. D., Geiger, B., Dux, R., Kappatou, A., Stroth, U., Prisyazhnyuk, D., Pütterich, T., Viezzler, E., and ASDEX Upgrade Team: Characterisation of the core poloidal flow structure at ASDEX Upgrade. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Lebschy, A., McDermott, R. M., Angioni, C., Geiger, B., Cavedon, M., Conway, G. D., Dux, R., Fable, E., Happel, T., Kappatou, A., Medvedeva, A., Pütterich, T., Prisiazhniuk, D., Ryter, F., Stroth, U., Viezzler, E., and ASDEX Upgrade Team: Measurement of the $E \times B$ velocity across the LOC-SOC transition. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Lebschy, A., McDermott, R. M., Geiger, B., Cavedon, M., Dunne, M. G., Dux, R., Fischer, R., Kappatou, A., McCarthy, P. J., Viezzler, E., and ASDEX Upgrade Team: Characterisation of the core poloidal flow at ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Lebschy, A., McDermott, R. M., Geiger, B., Cavedon, M., Dunne, M. G., Dux, R., Fischer, R., Viezzler, E., and ASDEX Upgrade Team: Indirect measurement of the poloidal rotation in the core of ASDEX Upgrade plasmas with charge exchange recombination spectroscopy. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Lechte, C., Conway, G. D., Görler, T., Tröster, C., and ASDEX Upgrade Team: Doppler Reflectometry Simulations for ASDEX Upgrade. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Lechte, C., Conway, G. D., Görler, T., Tröster, C., and ASDEX Upgrade Team: Doppler Reflectometry Simulations for Turbulence Spectra. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Lechte, C., Conway, G. D., Görler, T., Tröster, C., and ASDEX Upgrade Team: Fullwave Doppler Reflectometry Simulations. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Lechte, C., Conway, G. D., Görler, T., Tröster, C., and ASDEX Upgrade Team: Simulation of Doppler Reflectometry in ASDEX Upgrade and Comparison with Experiment. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Lemahieu, N., Greuner, H., Linke, J., Maier, H., Pintsuk, G., Wirtz, M., Van Oost, G., and Noterdaeme, J.-M.: H/He irradiation on tungsten exposed to ELM-like thermal shocks. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Lemahieu, N., Greuner, H., Linke, J., Maier, H., Pintsuk, G., Wirtz, M., Van Oost, G., and Noterdaeme, J.-M.: Thermal shock behaviour of H and H/He-exposed tungsten at high temperature. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Lerche, E., Goniche, M., Jacquet, P., Van Eester, D., Bobkov, V., Colas, L., Monakhov, I., Rimini, F., Czarnecka, A., Crombé, K., Dumont, R., Hobirk, J., Kazakov, Y., Mayoral, M.-L., Meneses, L., Mlynar, J., Noble, C., Nunes, I., Ongena, J., Petrzilka, V., Reich, M., Santala, M., Shaw, A., Tsallas, M., and JET Contributors: ICRH for core impurity mitigation in JET-ILW. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Lessig, A., Höglz, M., Krebs, I., Franck, E., Günter, S., Orain, F., Morales, J., Becoulet, M., and Huysmans, G.: Non-linear simulations of ELMs in ASDEX Upgrade including diamagnetic drift effects. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Lessig, A., Höglz, M., Krebs, I., Günter, S., Franck, E., Orain, F., Morales, J., Becoulet, M., Huysmans, G., and ASDEX Upgrade Team: Non-linear simulations of ELMs in

ASDEX Upgrade including diamagnetic drift effects. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Lessig, A., Hölzl, M., Orain, F., Günter, S., Becoulet, M., Huysmans, G., and ASDEX Upgrade Team: Non-linear simulations of ELMs in ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Leuthold, N., and Suttrop, W.: Influence of the plasma pedestal parameters on ELM mitigation at low collisionality. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Leyland, M. J., Beurskens, M. N. A., Dickinson, D., Dowsett, A., Flanagan, J., Frassinetti, L., Gibson, K. J., Giroud, C., Maggi, C., Saarelma, S., Urano, H., Wilson, H., and JET Contributors: The inter-ELM evolution of electron temperature and density H-mode pedestal profiles on JET with a metallic wall. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Li, M., and You, J.-H.: Design options to avoid deep cracking of tungsten armor at 20 MW/m². (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Li, M., and You, J.-H.: How does tungsten get cracked under ELM-like transient thermal loads? A fracture mechanics study. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Lishev, S., Schiesko, L., Wunderlich, D., and Fantz, U.: Influence of the configuration of the magnetic filter field on the discharge structure in the RF driven negative ion source prototype for fusion. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Liu, F., Huijsmans, G. T. A., Loarte, A., Garofalo, A. M., Hölzl, M., and Solomon, W. M.: Nonlinear MHD simulations of QH-mode plasmas in DIII-D. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Liu, R.: Self-organization of Magnetic Trap Plasmas. (1st Sino-German Symposium on Atmospheric Pressure Gas Discharges and Plasma Applications, 2015-10-11 to 2015-10-17, Beijing).

Liu, X., Lian, Y. Y., Greuner, H., Böswirth, B., Feng, F., Wang, J. B., Song, J. P., Yu, Y., Zhang, T., Liu, C. S., Tan, J.,

Liu, D. P., and Duan, X. R.: Irradiation effects of hydrogen and helium plasma on different grade tungsten materials. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Loizu, J.: 3D MHD equilibria with current sheets, magnetic islands, and chaos in stellarators and tokamaks. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Loizu, J.: Scrape-off layer turbulence and flows in different limiter configurations. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Loizu, J., Hudson, S., Bhattacharjee, A., and Helander, P.: Computation of singular currents at rational surfaces in non-axisymmetric MHD equilibria. (2015 International Sherwood Fusion Theory Conference, 2015-03-16 to 2015-03-18, New York, NY).

Loizu, J., Hudson, S., Bhattacharjee, A., Lazerson, S., and Helander, P.: A novel solution for the computation of three-dimensional ideal-MHD equilibria with current sheets at resonant surfaces. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Loizu, J., Hudson, S., Bhattacharjee, A., Lazerson, S., and Helander, P.: Plasma ideal response to a non-axisymmetric boundary perturbation. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Loizu, J., Hudson, S., Helander, P., Lazerson, S., and Bhattacharjee, A.: Pressure-driven amplification and penetration of resonant magnetic perturbations. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Loizu, J., Hudson, S. R., and Nührenberg, C.: Verification of the SPEC code in stellarator geometries. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Louche, F., Jacquot, J., Crombé, K., Van Eester, D., D'Inca, R., Devaux, S., Faudot, E., Faugel, H., Fischer, F., Fünfgelder, H., Heuraux, S., Moritz, J., Ochoukov, R., Siegl, G., and Noterdaeme, J.-M.: Designing the ISHTAR antenna: physics and engineering aspects. (21st Topical Conference on Radio-frequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Loureiro, N., Dorland, W., Fazendeiro, L., Kanekar, A., Mallet, A., and Zocco, A.: Viriato: a Fourier-Hermite spectral code for strongly magnetised fluid-kinetic plasma dynamics.

(57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Lu, L., Colas, L., Jacquot, J., Després, B., Heuraux, S., Faudot, E., Van Eester, D., Cromb  , K., K  ivsk  , A., and Noterdaeme, J.-M.: Non-linear radio frequency wave-sheath interaction in magnetized plasma edge: the role of the fast wave. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Lu, L., Cromb  , K., Van Eester, D., Colas, L., and Jacquot, J.: Wave coupling in the magnetized plasma edge: impact of a finite, inhomogeneous density inside the antenna box. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Lumsdaine, A., Bjarholm, T., Boscary, J., Clark, E., Ekici, K., Fellinger, J., Harris, J., Hoelbe, H., McGinnis, D., Lore, J., Neilson, H., Titus, P., Tretter, J., and Wurden, G.: Overview of Activities for the Wendelstein 7-X Scraper Element Collaboration. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Lunt, T., Vijvers, W. A. J., Canal, G. P., Duval, B., Feng, Y., Labit, B., McCarthy, P., Reimerdes, H., and Wischmeier, M.: Optimisation of the Snowflake divertor by means of EMC3-Eirene simulations and experiments. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Lunt, T., Zohm, H., Herrmann, A., Dunne, M., Feng, Y., Kallenbach, A., Neu, R., Wischmeier, M., and ASDEX Upgrade Team: Design of an alternative upper divertor in ASDEX Upgrade supported by EMC3-EIRENE simulations. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Lux, H., Kemp, R., Wenninger, R., Biel, W., Federici, G., Morris, W., and Zohm, H.: Uncertainties in power plant design point evaluations. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Mackel, F., Haas, G., and Scarabosio, A.: Conceptual design studies of ionization gauges for the measurements of neutral gas density at high pressures and high magnetic flux densities. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Maeyama, S., Watanabe, T.-H., Doerk, H., Nakata, M., and Ishizawa, A.: Benchmark of electromagnetic gyrokinetic codes in high performance fusion plasma. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Maggi, C. F., Meyer, H., Bourdelle, C., Chankin, A., Delabie, E., Brix, M., Carvalho, I. S., Drewelow, P., Flanagan, J., Giroud, C., Guillemaut, C., Meneses, L., Rimini, F., and JET Contributors: Impact of low-Z impurities on the L-H threshold in JET. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Maier, H.: Plasma-wall interaction in magnetic confinement fusion devices. (Advances in Materials Development for Fusion Devices, 2015-03-23 to 2015-03-24, Prague).

Maier, H., and Greuner, H.: Status and recent research at the neutral beam facility GLADIS. (5th International Workshop on Plasma Material Interaction Facilities for Fusion Research, 2015-10-07 to 2015-10-09, J  lich).

Maier, H., Greuner, H., Schwarz-Selinger, T., and Schmid, K.: Hydrogen retention in actively cooled tungsten exposed to simultaneous heat and particle loads. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Maier, H., Rasinski, M., Toussaint, U. von, Greuner, H., B  swirth, B., Balden, M., Elgeti, S., and Matthews, G. F.: Kinetics of carbide formation of tungsten coatings on CFC and implications on JET-ILW operation. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Maj, O., Bressan, C., Kraus, M., Morrison, P. J., and Sonnendr  cker, E.: First steps toward a three-dimensional MHD equilibrium code based on metriplectic dynamics. (2nd Geometric Algorithms and Methods for Plasma Physics Workshop (GAMPP), 2016-09-12 to 2016-09-16, Garching).

Maljaars, E., Brand, H. van den, Felici, F., Rapson, C., Treutterer, W., Sauter, O., and Baar, M. R. de: Simultaneous control of plasma profiles and neoclassical tearing modes with actuator management in tokamaks. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Manas, P., Camenen, Y., Benkadda, S., Weisen, H., Angioni, C., Casson, J. F., Giroud, C., Gelfusa, M., Kappatou, A., McDermott, R. M., P  tterich, T., Dux, R., Jaspers, R. J. E., Viezzier, E., Cavedon, M., Fischer, R., Willensdorfer, M., Tardini, G., JET Contributors, and ASDEX Upgrade Team: Combined analysis of light impurity transport in AUG and JET. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Manas, P., Camenen, Y., Benkadda, S., Weisen, H., Angioni, C., Casson, F. J., Giroud, C., and JET-EFDA Contributors: Gyrokinetic modelling of light impurity peaking in JET baseline and hybrid H-modes: a missing ingredient? (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Manas, P., Hornsby, W., Angioni, C., Camenen, Y., and Peeters, A. G.: Impact of the first order neoclassical distribution function on the turbulent impurity transport. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Manhard, A., Balden, M., Elgeti, S., Gao, L., and Schwarz-Selinger, T.: Formation and Degassing of Deuterium-Filled Blisters on Polycrystalline Tungsten. (11th International Conference on Diffusion in Solids and Liquids (DSL 2015), 2015-06-22 to 2015-06-26, Munich).

Manhard, A., Kapser, S., Gao, L., Balden, M., Elgeti, S., Schwarz-Selinger, T., Plocinski, T., Grzonka, J., Gloc, M., and Ciupinski, Ł.: Microstructure and Defect Analysis in the Vicinity of Blisters in Polycrystalline Tungsten. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Manhard, A., Kapser, S., Schwarz-Selinger, T., Schmid, K., Toussaint, U. von, Balden, M., Elgeti, S., and Jacob, W.: Interaction of Hydrogen Isotope Plasmas with Tungsten. (Seminar Talk at University of Tokio, 2015-12-08, Tokio).

Manhard, A., Lee, H. T., Schwarz-Selinger, T., Kapser, S., Schmid, K., Toussaint, U. von, and Ueda, Y.: Kinetics of hydrogen isotope exchange in traps in tungsten. (12th International Conference on Diffusion in Solids and Liquids (DSL2016), 2016-06-26 to 2016-06-30, Split).

Mantica, P., Bonanomi, N., Bravenec, R., Citrin, J., Fable, E., Giroud, C., Hillesheim, J. C., Perez von Thun, C., Staebler, G. M., Tsallas, M., and JET Contributors: Fast ion enhanced non-linear electromagnetic stabilization of ITG transport: new JET results in absence of rotation and model validation. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Mantica, P., Casson, F. J., Valisa, M., Angioni, C., Bilato, R., Belonohy, E., Giroud, C., Goniche, M., Hawkes, N., Lerche, E., and JET Contributors: Progress in understanding W control using ICRH in the JET-ILW tokamak. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Mantsinen, M. J., Bilato, R., Bobkov, V., Kappatou, A., McDermott, R., Nocente, M., Odstrcil, T., Tardini, G.,

Bernert, M., Hellsten, T., Mantica, P., Maraschek, M., Nielsen, S. K., Rasmussen, J., Ryter, F., Stejner, M., Stober, J., Tardocchi, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Bulk ion heating with ICRF waves in tokamaks. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Mantsinen, M. J., Bobkov, V., Gallart, D., Geiger, B., Meyer, H., Nocente, M., Ochoukov, R., Odstrcil, T., Perelli, E., Rasmussen, J., Sharapov, S., Schneider, P. A., Tardini, G., Tardocchi, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Third harmonic ICRF heating of deuterium beam ions on ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Mantsinen, M. J., Oliveira, F. N. de, Angioni, C., Bilato, R., Doerk, H., Gallart, D., Gutierrez-Milla, A., Mantica, P., Odstrcil, T., Saez, X., Tardini, G., ASDEX Upgrade Team, and EUROfusion MST1 Team: Modelling of ³He minority heating and transport levels in AUG discharges with large core ion temperature gradients. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Manz, P., Birkenmeier, G., Fuchert, G., Cavedon, M., Conway, G. D., Mink, F., Scott, B. D., Stroth, U., and ASDEX Upgrade Team: Poloidal asymmetric flow and current perturbations during I-phase in ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Manz, P., Fischer, F., Birkenmeier, G., Carralero, D., Fuchert, G., Marsen, S., Nold, B., Ramisch, M., Ribeiro, T. T., Scott, B. D., Wilcox, R. S., and Stroth, U.: Nonlocal transport in the scrape-off layer. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Manz, P., Lauber, P., Nikolaeva, V. E., Happel, T., Birkenmeier, G., Conway, G. D., Ryter, F., and ASDEX Upgrade Team: Turbulence in I-mode in ASDEX Upgrade. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Manz, P., and Mitschek, M.: Experimentalphysik 1 für Chemiker. (WS 2014/2015. Vorlesung/Übung, Technische Universität München).

Manz, P., and Mitschek, M.: Experimentalphysik 1 für Chemiker. (WS 2015/2016. Vorlesung/Übung, Technische Universität München).

Manz, P., Potzel, S., Wischmeier, M., and ASDEX Upgrade Team: On stability and propagation of the high field side detachment front in ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Manz, P., Ribeiro, T., Scott, B., Birkenmeier, G., Carralero, D., Fuchert, G., Müller, S., Müller, H. W., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Origin and turbulence spreading of plasma blobs. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Maraschek, M., Reich, M., Behler, K., Giannone, L., Poli, E., Rapson, C. J., Sauter, O., Stober, J., Treutterer, W., Zohm, H., and ASDEX Upgrade Team: Real-time control of MHD instabilities using ECCD in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Marcuzzi, D., Agostinetti, P., Dalla Palma, M., De Muri, M., Chitarin, G., Gambetta, G., Marconato, N., Pasqualotto, R., Pavai, M., Pilan, N., Rizzolo, A., Serianni, G., Toigo, V., Trevisan, L., Visentin, M., Zaccaria, P., Zaupa, M., Boilson, D., Graceffa, J., Hemsworth, R. S., Choi, C. H., Marti, M., Roux, K., Singh, M. J., Masiello, A., Fröschle, M., Heinemann, B., Nocentini, R., Riedl, R., Tobari, H., Esch, H. P. L. de, and Muvvala, V. N.: Final Design of the Beam Source for the MITICA Injector. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Marcuzzi, D., Agostinetti, P., Dalla Palma, M., De Muri, M., Chitarin, G., Gambetta, G., Marconato, N., Pasqualotto, R., Pavai, M., Pilan, N., Rizzolo, A., Serianni, G., Toigo, V., Trevisan, L., Visentin, M., Zaccaria, P., Zaupa, M., Boilson, D., Graceffa, J., Hemsworth, R. S., Choi, C. H., Marti, M., Roux, K., Singh, M. J., Masiello, A., Fröschle, M., Heinemann, B., Nocentini, R., Riedl, R., Tobari, H., Esch, H. P. L. de, and Muvvala, V. N.: Final Design of the Beam Source for the MITICA Injector. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Mariani, A., Merlo, G., Brunner, S., Merle, A., Sauter, O., Görler, T., and Told, D.: Characterization with microturbulence simulations of the zero particle flux condition in case of a TCV discharge showing toroidal rotation reversal. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Marini, C., Demolon, P., Duval, B. P., Furno, I., Howling, A. A., Jacquier, R., Karpushov, A. N., Guittienne, P., Fantz, U., Wunderlich, D., Simonin, A., and Bechu, S.: Spectroscopic measurements of hydrogen dissociation degree and H⁻ production in resonant antenna-generated plasmas. (43rd EPS

Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Markelj, S., Schwarz-Selinger, T., Kelemen, M., and Elgeti, S.: Influence of He on hydrogen isotope transport and retention in tungsten – first observation of D accumulation around He implantation zone. (2nd International Workshop on Models and Data for Plasma-Material Interaction in Fusion Devices (MoD-PMI 2016), 2016-06-22 to 2016-06-24, Loughborough).

Markelj, S., Zaloznik, A., Schwarz-Selinger, T., Kelemen, M., Vavpetic, P., and Pelicon, P.: The first study of deuterium retention in tungsten simultaneously damaged by high energy W ions and loaded by D. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Markelj, S., Zaloznik, A., Schwarz-Selinger, T., Ogorodnikova, O. V., Kelemen, M., Vavpetic, P., and Pelicon, P.: Deuterium retention studies in self-ion damaged tungsten exposed to neutral atoms. (24th International Conference Nuclear Energy for New Europe (NENE 2015), 2015-09-14 to 2015-09-17, Portoroz).

Markelj, S., Zaloznik, A., Schwarz-Selinger, T., Ogorodnikova, O., Vavpetic, P., Pelicon, P., and Cadez, I.: In situ NRA study of hydrogen isotope exchange in self-ion damaged tungsten exposed to neutral atoms. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Marné, P. de, Herrmann, A., Leitenstern, P., and ASDEX Upgrade Team: Standardization of the hard- and software used to operate manipulators at ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Marsen, S., Corre, Y., Laqua, H. P., Moncada, V., Preynas, M., and Stange, T.: First results from protective ECRH diagnostics in W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Marsen, S., Höfel, U., Laqua, H. P., Moseev, D., Preynas, M., Stange, T., and W7-X Team: Performance of ECR heating during the first operational phase of W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Marsen, S., Preynas, M., Laqua, H. P., Moncada, V., Corre, Y., Stange, T., and Reintrog, A.: Protective ECRH Diagnostics for W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Martin, P., Beurskens, M., Coda, S., Eich, T., Hakola, A., Meyer, H., EUROfusion MST1 Team, ASDEX Upgrade Team, MAST Team, and TCV Team: Development of operation scenarios and risk mitigation for ITER in the EUROfusion Medium Size Tokamaks. (18th International Congress on Plasma Physics (ICPP 2016)), 2016-06-27 to 2016-07-01, Kaohsiung).

Martin, P., Beurskens, M., Coda, S., Eich, T., and Meyer, H.: Overview of the EUROfusion Medium Size Tokamak Program. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Martin, P., Beurskens, M., Coda, S., Eich, T., Hakola, A., Meyer, H., EF PB Team, ASDEX Upgrade Team, MAST Team, and TCV Team: Disruption and Runaway Electron Studies in the EUROfusion Medium Size Tokamaks. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Martinov, S., Löbhard, T., Lunt, T., Behler, K., Drube, R., Eixenberger, H., Lohs, A., Lüddecke, K., Merkel, R., and ASDEX Upgrade Team: New Software Tools for ASDEX Upgrade Machine and Diagnostic Introspection and Visualization. (10th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research, 2015-04-20 to 2015-04-24, Ahmedabad, Gujarat).

Martinov, S., Sieglin, B., Lunt, T., Drube, R., Herrmann, A., and ASDEX Upgrade Team: Real-Time Machine Protection at ASDEX Upgrade with Near Infrared Cameras. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Martitsch, A., Kasilov, S. V., Kernbichler, W., Heyn, M. F., Strumberger, E., Fietz, S., Sutrop, W., and ASDEX Upgrade Team: Evaluation of the neoclassical toroidal viscous torque in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Martone, M.: Auto-tuning shared memory parallel Sparse BLAS operations in librsb-1.2. (Sparse Solvers for Exascale: From Building Blocks to Applications, 2015-03-23 to 2015-03-25, Greifswald).

Marushchenko, N. B.: Numerical Investigation of Electron Cyclotron Heating/Current Drive & Electron Cyclotron Emission for W7-X Stellarator. (Seminar on General Physics, A. I. Akhiezer Institute of Theoretical Physics in NSC KIPLPhT and V. N. Karazin Kharkiv National University, 2015-03-20 to 2015-03-20, Kharkiv).

Marushchenko, N. B., Erckmann, V., Beidler, C. D., Geiger, J., Laqua, H. P., Helander, P., Maassberg, H., and Turkin, Y.:

On selective ECR heating of trapped/passing electrons in the W7-X Stellarator. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Marushchenko, N. B., and W7-X Team: Main results of the first experimental campaign in the stellarator W7-X. (International Conference and School on Plasma Physics and Controlled Fusion, 2016-09-12 to 2016-09-15, Kharkov).

Marzullo, D., Coccorese, D., Di Gironimo, G., Mazzone, G., and You, J.-H.: Systems engineering approach for pre-conceptual design of DEMO divertor cassette. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Mastrostefano, S., Bettini, P., Bolzonella, T., Igochine, V., Liu, Y., Villone, F., and Yadykin, D.: MHD modes analysis in high-beta ASDEX Upgrade configurations including a 3D model of conductors. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Matejicek, J., Weinzettl, V., Mackova, A., Havranek, O. V., Hakkola, A., Petersson, P., Maier, H., and Rubel, M.: Interaction of candidate plasma facing materials with tokamak plasma. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Matthews, G. F., Bazylev, B., Baron-Wiechec, A., Coenen, J., Heinola, K., Kiptily, V., Maier, H., Reux, C., Riccardo, V., Rimini, F., Sergienko, G., Thompson, V., Widdowson, A., and JET Contributors: Melt damage to the JET ITER-like Wall and divertor. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Matveev, D., Dittmar, T., Reinelt, M., Oberkofler, M., Buzi, L., and Linsmeier, C.: Reaction-diffusion modelling of hydrogen retention in Be and W. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Maviglia, F., Federici, G., Strohmayer, G., Wenninger, R., Bachmann, C., Albanese, R., Ambrosino, R., Li, M., Loschiavo, V. P., You, J. H., and Zani, L.: Limitations of Transient Power Loads on DEMO and Analysis of Mitigation Techniques. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Maviglia, F., Federici, G., Wenninger, R., Albanese, R., Ambrosino, R., Sieglin, B., Siccinio, M., and Zohm, H.: Development of DEMO wall heat load specification. (1st IAEA

Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Mayer, M.: Computer Simulation of Ion Beam Analysis: Possibilities and Limitations. (Presentation at the University Uppsala, 2016-01-21, Uppsala).

Mayer, M.: Ion Beam Analysis of Laterally Inhomogeneous Materials. (22nd International Conference on Ion Beam Analysis (IBA 2015), 2015-06-14 to 2015-06-19, Opatija).

Mayer, M.: Ion Beam Analysis of Laterally Inhomogeneous Samples. (Seminar Talk at the Universidade de São Paulo, 2015-09-18, Brazil).

Mayer, M., Krat, S., Baron-Wiechec, A., Bykov, I., Coad, P., Gasparyan, Y., Heinola, K., Petersson, P., Ruset, C., Saint-Aubin, G., Widdowson, A., and JET Contributors: Erosion, deposition and deuterium inventory of the bulk tungsten divertor tile during the first JET ITER-like wall campaign. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Mayer, M., Krat, S., Van Renterghem, W., Brezinsek, S., Bykov, I., Coad, P., Gasparyan, Y., Likonen, J., Pisarev, A., Ruset, C., De Saint-Aubin, G., Widdowson, A., and JET Contributors: Erosion and deposition in the JET divertor during the first ILW campaign. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Mazzone, G., Aktaa, J., Bachmann, C., De Meis, D., Frosi, P., Di Gironimo, G., Mariano, G., Marzullo, D., Porfiri, M. T., Rieth, M., Villari, R., and You, J.-H.: Issues involved in the choice of low operating temperature for DEMO Eurofer divertor cassette. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

McCarthy, K. J., Baldzuhn, J., Sakamoto, R., Dinklage, A., Cats, S., Motojima, G., Panadero, N., Pégouriè, B., Yamada, H., Ascasibar, E., LHD Team, W7-X Team, and TJ-II Team: Comparative Study of Pellet Fuelling in 3-D Magnetically Confined Plasma Devices. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

McCarthy, K. J., Baldzuhn, J., Sakamoto, R., Dinklage, A., Motojima, G., Panadero, N., Pégouriè, B., Yamada, H., Ascasibar, E., LHD Team, and TJ-II Team: Comparative Study of Pellet Fuelling in 3-D Magnetically Confined Plasma Devices. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

McCarthy, P. J., Lackner, K., Zohm, H., Lunt, T., Fischer, R., Fuchs, J. C., Giannone, L., Suttrop, W., and ASDEX Upgrade Team: Advanced divertor equilibrium calculations with finite current density on the plasma boundary (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

McDermott, R. M., Angioni, C., Duval, B., Odstrcil, T., Salmi, A., Tala, T., Pütterich, T., Ryter, F., Tardini, G., and ASDEX Upgrade Team: Diffusive and non-diffusive contributions to momentum transport in AUG experiments and the European intrinsic rotation database. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

McDermott, R. M., Duval, B., Kappatou, A., Sauter, O., Lebschy, A., Marini, C., Dux, R., Camenen, Y., Geiger, B., Merle, A., Meyer, H., Nielsen, S., Stejner, M., Pütterich, T., Rasmussen, J., Schubert, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Effect of sawteeth on low-Z impurity particle and momentum transport investigated in ASDEX Upgrade. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Medvedeva, A., Bottreau, C., Cavedon, M., Clairet, F., Conway, G. D., Heureaux, S., Molina, D., Silva, A., Stroth, U., and ASDEX Upgrade Team: Experimental study of turbulence with the ultra-fast swept reflectometer in ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Medvedeva, A., Bottreau, C., Cavedon, M., Clairet, F., Conway, G. D., Heureaux, S., Molina, D., Silva, A., Stroth, U., and ASDEX Upgrade Team: Density profile and turbulence evolution during L-H transitions studied with the Ultra-fast swept reflectometer on ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Medvedeva, A., Bottreau, C., Clairet, F., Conway, G. D., Heureaux, S., Molina, D., Stroth, U., and ASDEX Upgrade Team: Density fluctuations measurements with an ultra-fast-swept reflectometer in ASDEX Upgrade. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Medvedeva, A., Bottreau, C., Clairet, F., Conway, G. D., Heureaux, S., Molina, D., Stroth, U., and ASDEX Upgrade Team: Experimental study of the radial structure of turbulence with an ultra-fast swept reflectometer in ASDEX Upgrade. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Mehrenberger, M., Afeyan, B., Larson, D., Crouseilles, N., Casas, F., Faou, E., Dodhy, A., Sonnendrücker, E., and Shoucri, M.: EEN and KEEPN wave simulations from 2D to 4D.

(57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Meichsner, J., and Dinklage, A.: Plasmadiagnostik. (WS 2015/2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Meisl, G., Plank, U., Oberkofler, M., Hakola, A., Krieger, K., Schmid, K., Lisgo, S. W., Mayer, M., Lahtinen, A., Drenik, A., Potzel, S., Aho-Mantila, L., ASDEX Upgrade Team, and JET Contributors: Nitrogen migration in ASDEX Upgrade and JET: Understanding the dependence on surface temperature, roughness and N transport in the SOL. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Meisl, G., Schmid, K., Krieger, K., Oberkofler, M., Lisgo, S. W., and JET Contributors: Simulating the nitrogen migration in Be/W tokamaks with WallDYN. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Meister, H.: Development status of the ITER bolometer and pressure gauge diagnostics at IPP. (ITER Business Forum 2015, 2015-03-25 to 2015-03-27, Marseille).

Meister, H.: Das ITER-Projekt – auf dem Weg zur Fusionsenergie. (Edgar-Lüscher-Lectures: Großgeräte und Projekte in der Physik, 2015-09-28 to 2015-09-30, Dillingen).

Meister, H.: Status of the Design of the ITER Diagnostic Pressure Gauges. (29th Meeting of the ITPA Topical Group on Diagnostics, 2015-11-02 to 2015-11-06, Cadarache).

Meister, H.: Status of the design of ITER bolometers. (29th Meeting of the ITPA Topical Group on Diagnostics, 2015-11-02 to 2015-11-06, Cadarache).

Meister, H., Eixenberger, H., Gliss, C., Kannamüller, M., Kotroc, K., Pataki, A., Szücs, J., Veres, G., Fekete, T., Tatar, L., Detemple, P., Mpoukouvalas, K., and Schmitt, S.: Overview of the R&D Activities for the ITER Bolometer Diagnostic. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Meister, H., Gliss, C., Kannamüller, M., Koll, J., Gabor, N., Adam, P., Penzel, F., Sehmer, T., Ingesson, C. L., and Reichle, R.: Current status of the design of the ITER bolometer diagnostic. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Mendoza, L., Grandgirard, V., Ratnani, A., and Sonnendrücker, E.: Modelling the Vlasov equation on complex

geometries using the Semi-Lagrangian scheme. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Merlo, G., Brunner, S., Coda, S., Huang, Z., Sauter, O., Villard, L., Görler, T., Jenko, F., Told, D., Camenen, Y., and Marinoni, A.: Global gyrokinetic simulations of microturbulence for TCV-relevant plasmas. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Meshcheriakov, D., Igochine, V., Fietz, S., Höglund, M., Orain, F., and Zohm, H.: Numerical study of tearing mode seeding by externally provided perturbation of resonant surface. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Meshcheriakov, D., Igochine, V., Zohm, H., Gude, A., Marschek, M., Moseev, D., and Vezinet, D.: Representation of finite amplitude ideal magnetohydrodynamic modes. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Meyer, H. F., Birkenmeier, G., Douai, D., Kallenbach, A., Kirk, A., Laggner, F., Mazon, D., Suttorp, W., and Viezzzer, E.: The He campaign on ASDEX Upgrade. (16th ITPA IOS-TG Meeting, 2016-04-26 to 2016-04-29, Garching).

Meyer, H. F., MST1 Task Force Leaders, ASDEX Upgrade Team, MAST Team, TCV Team, and EUROfusion MST1 Team: One year of MST1 – Highlights of the campaign 2014. (7th Hungarian Plasma Physics and Fusion Technology Workshop (HPPW 2015), 2015-04-08 to 2015-04-10, Tengelic).

Meyer-Spasche, R.: Oscar Buneman und die Anfänge der Erforschung von kosmischen Plasmen. (Kolloquium (Tagung) des Arbeitskreises Astronomiegeschichte in der Astronomischen Gesellschaft: Astronomie im Ostseeraum, 2015-09-13 to 2015-09-14, Kiel).

Meyer-Spasche, R.: Remarks on the Impact of Computers on Physics, Mathematics and Society. (7th International Conference of the European Society for the History of Science (ESHS), 2016-09-22 to 2016-09-24, Prague).

Meyer-Spasche, R.: Round-trip of an algorithm. (13. Österreichisches Symposium zur Geschichte der Mathematik, 2016-05-01 to 2016-05-07, Miesenbach).

Meyer-Spasche, R.: Science Fiction Meets Reality: Hannes Alfvén's 1966-Vision of Future Computers. (2nd International Conference on Science and Literature, 2016-09-07 to 2016-09-09, Pöllau).

Meyer-Spasche, R.: Some Remarks on the Impact of Computers on Mathematics and Physics. (7th European Congress of Mathematics (7ECM), 2016-07-18 to 2016-07-22, Berlin).

Meyer-Spasche, R.: Some Remarks on the Impact of Programmable Computers on Mathematics and Physics. (Scriba Memorial Meeting, Zentrum für Geschichte der Naturwissenschaft und Technik, 2015-05-12 to 2015-05-17, Hamburg).

Mikhailov, M. I., Nührenberg, J., and Zille, R.: Approximate Quasi-Isodynamicity at Finite Aspect Ratio in a Stellarator Vacuum Magnetic Field. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Milojevic, D., Grulke, O., and Klinger, T.: Current sheet formation during magnetic reconnection experiment. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Mimo, A., Wimmer, C., Wunderlich, D., and Fantz, U.: Investigation of Cs dynamics in RF negative ion sources by means of numerical simulations and laser absorption spectroscopy. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Mimo, A., Wimmer, C., Wunderlich, D., and Fantz, U.: Modelling of caesium dynamics in the negative ion sources BATMAN and ELISE. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Mimo, A., Wimmer, C., Wunderlich, D., and Fantz, U.: Optimization of caesium dynamics in large and powerful RF sources for negative hydrogen ions. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Minea, T., Revel, A., Mochalskyy, S., and Lifschitz, A.: Magnetized plasma modelling: common approach interesting for fusion and processing plasmas. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Mink, F., Wolfrum, E., Laggner, F., Horvath, L., Stroth, U., and ASDEX Upgrade Team: Mode number determination of ELM associated phenomena by improved phase fitting of magnetic pick-up coils. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Mink, F., Wolfrum, E., Maraschek, M., Zohm, H., Horvath, L., Viezzzer, E., Laggner, F., Manz, P., Stroth, U., and ASDEX Upgrade Team: Characterization of inter-ELM magnetic

oscillations on ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Mishchenko, A.: Calculations of Bootstrap and Pfirsich-Schlüter currents in stellarator geometry. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Mishchenko, A.: Mixed-variable gyrokinetics. (2nd Geometric Algorithms and Methods for Plasma Physics Workshop (GAMPP), 2016-09-12 to 2016-09-16, Garching).

Mishchenko, A., Biancalani, A., Bottino, A., Borchardt, M., Cole, M., Feher, T., Hatzky, R., Kleiber, R., Könies, A., Lewerentz, M., Leyh, H., Riemann, J., Slaby, C., Sonnendrücker, E., Tran, T. M., and Zocco, A.: Particle-in-cell simulations of global electromagnetic modes. (Gyrokinetic Particle Simulation: A Symposium in Honor of Wei-li Lee, 2016-07-18 to 2016-07-22, Irvine, CA).

Mishchenko, A., Borchardt, M., Cole, M., Hatzky, R., Kleiber, R., Könies, A., and Sonnendrücker, E.: Mixed-variable gyrokinetics. (Gyrokinetic Theory Working Group Meeting (GAMPP 2016), 2016-09-26 to 2016-09-30, Madrid).

Miyato, N., and Scott, B.: Gyrokinetic modeling issues of edge plasma. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Mlynek, A., Fischer, R., Ford, O., Lang, P. T., Plöckl, B., and ASDEX Upgrade Team: First results from the new submillimeter polarimeter on the ASDEX Upgrade tokamak. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Mochalskyy, S., Fantz, U., Wunderlich, D., and Minea, T.: Cross-Checked Analysis of ONIX Simulation Results and Experimental Data for Negative Ion Extraction from the BATMAN Testbed. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Mollén, A., Landreman, M., Garcia-Regana, J. M., Smith, H. M., Alonso, J. A., Kleiber, R., Beidler, C. D., and Helander, P.: The role of flux-surface potential variations in stellarator impurity transport. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Mollén, A., Landreman, M., Smith, H. M., and Helander, P.: Impurities in a non-axisymmetric plasma: transport and effect on bootstrap current. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Mollén, A., Landreman, M., Smith, H. M., and Helander, P.: Impurities in a non-axisymmetric plasma: transport and effect on bootstrap current. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Mordijk, S., Meier, E. T., Salmi, A., Tala, T., Järvinen, A., Meneses, L., Svensson, J., Gomes, R., Maslov, M., and JET Collaborators: Comparison of time-dependent ionization and density profile evolution of SOLPS5.0 simulations with JET experiments. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Moreau, P., Bucalossi, J., Courtois, X., Gil, C., Lotte, P., Nardon, E., Nouailletas, R., Ravenel, N., Travere, J.-M., Meyer, O., Missirlian, M., Samaille, F., Signoret, J., Bremond, S., Daniel, R., Bhandarkar, M., Chavda, C., Sugandh, R., Chaudhari, V., Soni, J., Dhongde, J., Belsare, S., Kumar, A., Kumari, P., Mansuri, I., Masand, H., Patel, K., Ranjan, S., Sharma, M., Joshi, H., Patel, M., Rapson, C., Raupp, G., Treutterer, W., Spring, A., Werner, A., Lewerentz, M., Laqua, H., and WEST Team: Measurements and controls implementation for the WEST project. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Moseev, D., Jacobsen, A. S., Korsholm, S. B., Leipold, F., Maraschek, M., McDermott, R. M., Michelsen, P. K., Nielsen, S. K., Rasmussen, J., Salewski, M., Schubert, M., Stejner, M., Stober, J., Suttrop, W., Tardini, G., Wagner, D., and ASDEX Upgrade Team: CTS on TEXTOR & ASDEX Upgrade. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Moseev, D., Laqua, H. P., Stange, T., Marsen, S., Braune, H., Erckmann, V., Gellert, F., and Oosterbeek, H.: Experimental investigation of the ECRH stray radiation during the start-up phase in Wendelstein 7-X. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Moulton, D., Harrison, J., Lipschultz, B., and Coster, D.: 1D and 2D SOLPS analysis of divertor detachment in conventional and Super-X geometries. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Müller, A. von, Ewert, D., Galatanu, A., Neu, R., Pastor, J. Y., Siefken, U., Tejado, E., and You, J.-H.: Power exhaust in a nuclear fusion reactor and the possibility to use W-Cu composites as heat sink materials for highly loaded plasma facing components. (6th Colloquium of the Munich School of

Engineering: "New Concepts in Energy Science and Engineering," 2016-07-07, Garching).

Müller, A. von, Ewert, D., Siefken, U., and You, J.-H.: Manufacturing W fibre-reinforced Cu composite pipes for application as heat sink in divertor targets of future nuclear fusion reactors. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Müller, A. von, Tejado, E., Galatanu, A., Ewert, D., Greuner, H., Milwich, M., Neu, R., Pastor, J. Y., Siefken, U., and You, J.-H.: Melt infiltrated W-Cu composites as advanced heat sink materials for plasma facing components. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Müller, H. W., Carralero, D., Conway, G., Faitsch, M., Fuchs, J. C., Kirk, A., Lunt, T., Sieglin, B., Simon, P., Suttrop, W. A., Wolfrum, E., and ASDEX Upgrade Team: Influence of (R)MPs on edge transport. (597th Wilhelm und Else Heraeus Seminar "Stochasticity in Fusion Plasmas," 2015-09-10 to 2015-09-12, Bad Honnef).

Myers, C. E., Gerhardt, S. P., Eidietis, N. W., Granetz, R. S., and Pautasso, G.: A multi-machine analysis of non-axisymmetric and rotating halo currents. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Myers, C. E., Gerhardt, S. P., Eidietis, N. W., Granetz, R. S., Pautasso, G., and ITPA Working Group on Non-Axisymmetric Halo Currents: A multi-machine analysis of non-axisymmetric and rotating halo currents. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Nadasi, G., Gliss, C., Meister, H., Penzel, F., and Pataki, A.: Conceptual studies for the management of thermal properties of ITER bolometer cameras. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Nagasaki, K., Igami, H., Weir, G. M., Nakamura, Y., Kamioka, S., Sakamoto, K., Okada, H., Minami, T., Kado, S., Kobayashi, S., Yamamoto, S., Ohshima, S., Konoshima, S., Kenmochi, N., Ohtani, Y., Volpe, F., Marushchenko, N., Kubo, S., Goto, Y., and Mizuuchi, T.: Development of Electron Bernstein Emission Diagnostic for Heliotron J and LHD. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Nagel, M., Dhard, C. P., Bau, H., Bosch, H.-S., Meyer, U., Raatz, S., Risse, K., and Rummel, T.: Cryogenic commissioning, cool down and first magnet operation of Wendelstein 7-X.

(26th International Cryogenic Engineering Conference, 2016-03-07 to 2016-03-11, New Delhi).

Nagel, M., Dhard, C. P., Bau, H., Bosch, H.-S., Meyer, U., Raatz, S., Risse, K., and Rummel, T.: First evaluation of cryogenic performance of Wendelstein 7-X cryostat. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Nakano, H., Tsumori, K., Kisaki, M., Ikeda, K., Geng, S., Nagaoka, K., Osakabe, M., Takeiri, Y., Kaneko, O., Serianni, G., Agostinetti, P., Sartori, E., Brombin, M., and Wimmer, C.: Behavior of Negative Hydrogen Ion and its Beam by Bias and Beam Extraction Voltages. (68th Annual Gaseous Electronics Conference (GEC 68) / 9th International Conference on Reactive Plasmas (ICRP 9) / 33rd Symposium on Plasma Processing (SPP 33), 2015-10-12 to 2015-10-16, Honolulu).

Nardon, E., Fil, A., Sommariva, C., Drewelow, P., Hözl, M., Huijsmans, G., Jachmich, S., Kruezi, U., Lehnen, M., Nkonga, B., Pautasso, G., Reux, C., Riccardo, V., JET Contributors, ASDEX Upgrade Team, and MST1 Contributors: Modelling of gas penetration, MHD activity, radiation and runaway electrons in disruptions mitigated by massive gas injection. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Nasr, S., Zarzoso, D., Hornsby, W. A., and Poli, E.: Kinetic analysis of the interaction between particles and magnetic islands in fusion plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Neu, R.: Boundary Conditions for a Solid State Divertor in a Fusion Power Plant. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Neu, R.: Plasma-Material-Wechselwirkung. (SS 2015. Vorlesung, Technische Universität München).

Neu, R., Herrmann, A., Kallenbach, A., Noterdaeme, J.-M., Pautasso, G., Schweinzer, J., Stober, J., and Suttrop, W.: ASDEX Upgrade program for closing gaps to fusion energy. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Neu, R., Maier, H., Hösch, T., Greuner, H., Balden, M., Herrmann, A., Zammuto, I., and ASDEX Upgrade Team: Investigations on tungsten heavy alloys for use as plasma facing material. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Neu, R., Riesch, J., Coenen, J. W., Avello, M., Brinkmann, J., Calvo, A., Du, J., Elgeti, S., Garcia-Rosales, C., Greuner, H., Han, Y., Hösch, T., Jasper, B., Koch, F., Linsmeier, C., Litnovsky, A., and Munoz, M.: Advanced Tungsten Materials for Plasma-facing Components of DEMO and Fusion Power Plants. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Neu, R., Riesch, J., Müller, A. von, Aumann, M., Balden, M., Coenen, J. W., Gietl, H., Holzner, G., Hösch, T., Li, M., and You, J.-H.: Tungsten Fibre-Reinforced Composites for Advanced Plasma Facing Components. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Neubauer, O., Allahyari, R., Czymek, G., Denner, P., Harberts, F., Knaup, M., König, R., Krychowiak, M., and Schweer, B.: Optical Instruments for Local Divertor Observation at Wendelstein 7-X. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Neubauer, O., König, R., Hathiramani, D., Endler, M., Estrada, T., Kubkowska, M., Kocsis, G., and W7-X Team: Diagnostics for First Operation of the Wendelstein 7-X Stellarator. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Neuner, U., Rahbarnia, K., Endler, M., Thomsen, H., Klinger, T., and W7-X Team: Concept for calibrating the Rogowski coil system of the Wendelstein 7-X stellarator. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Newton, S. L., and Helander, P.: Neoclassical Radial Impurity Flux in a Mixed Collisionality Stellarator Plasma. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Nichols, J. H., Jaworski, M. A., Kaita, R., and Schmid, K.: Global mixed-material migration modeling of NSTX-U and a parameterized Li-C-O surface model. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Nichols, J. H., Jaworski, M. A., Schmid, K., Buzi, L., and Koel, B.: Sensitivity of WallDYN material migration modeling to uncertainties in mixed-material surface binding energies. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Nicolai, D., Schweer, B., Borsuk, V., Drews, P., Grulke, O., Hollfeld, K.-P., Linsmeier, C., Neubauer, O., Offermanns, G,

and Satheeswaran, G.: A multi-purpose manipulator system for W7-X as user facility for plasma edge investigation. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Nielsen, A. H., Aho-Mantila, L., Madsen, J., Müller, H. W., Vianello, N., Radhakrishnan, H., Signoret, J., Wischmeier, M., Sieglin, B., Carralero, D., Birkenmeier, G., Coelho, R., Juul Rasmussen, J., Naulin, V., Loiten, M., Tophøj, L., Schrittwieser, R., Costea, S., and ASDEX Upgrade Team: First principle numerical simulations of the SOL in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Niemann, H., Jakubowski, M., König, R., Pedersen, T. S., Wurden, G. A., and W7-X Team: Limiter Powerloads in Wendelstein 7-X. (13th Kudowa Summer School "Towards Fusion Energy," 2016-06-13 to 2016-06-17, Kudowa-Zdroj).

Niemann, H., Jakubowski, M., König, R., Pedersen, T. S., Wurden, G., and W7-X Team: Power loads in the limiter phase of Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Niemann, H., Jakubowski, M., Pedersen, T. S., and Wurden, G.: Power loads in the limiter phase of Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Nikolaeva, V., Manz, P., Guimarais, L., Conway, G. D., Fischer, R., Manso, M. E., Ribeiro, T. T., Ryter, F., Silva, C., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Dependence of inboard/outboard edge turbulence behaviour on the magnetic configurations in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Nikolaeva, V., Manz, P., Guimarais, L., Conway, G. D., Fischer, R., Manso, M. E., Ryter, F., Silva, C., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: Poloidal asymmetries in SOL transport on ASDEX Upgrade (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Nikolaeva, V., Manz, P., Guimarais, L., Conway, G. D., Fischer, R., Manso, M. E., Ryter, F., Silva, C., Stroth, U., Wolfrum, E., and ASDEX Upgrade Team: SOL/edge plasma turbulence poloidal asymmetries at ASDEX Upgrade in different magnetic configurations (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Nikolaeva, V., Manz, P., Guimarais, L., Manso, M. E., Silva, C., Stroth, U., Conway, G. D., Ryter, F., Wolfrum, E., and ASDEX Upgrade Team: Dependence of poloidal asymmetries of the edge turbulence on the magnetic configurations in ASDEX Upgrade (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Nishioka, S., Mochalskyy, S., Taccogna, F., Hatayama, A., Fantz, U., and Minelli, P.: Code-to-Code Benchmark Test for 3D Kinetic Particle Code of Extraction Region in Negative Ion Sources. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Nocente, M., Garcia-Munoz, M., Lazanyi, N., Dunne, M., Galdon-Quiroga, J., Hözl, M., Rodriguez-Ramos, M., Sanchis-Sanchez, L., Strumberger, E., and ASDEX Upgrade Team: Numerical investigation of fast ion losses induced by resonant magnetic perturbations and edge localized modes at ASDEX Upgrade. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Nocentini, R., Bonomo, F., Ricci, M., Pimazzoni, A., Fantz, U., Franzen, P., Heinemann, B., Riedl, R., and Wunderlich, D.: Beam Calorimetry at the Large Negative Ion Source Test Facility ELISE: Experimental Setup and Latest Results. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Nocentini, R., Fantz, U., Fröschle, M., Heinemann, B., Kraus, W., Riedl, R., and Wunderlich, D.: Preparation of the ELISE test facility for long-pulse extraction of negative ion beams. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Noterdaeme, J.-M.: Nuclear Reactor Theory. (WS 2014/2015. Vorlesung, Universiteit Gent).

Noterdaeme, J.-M.: Nuclear Reactor Theory and Experiments, Part 2. (SS 2015. Blockvorlesung, Interuniversity Programme in Nuclear Engineering, Belgian Nuclear Higher Education Network (BNEN), Universiteit Gent).

Noterdaeme, J.-M.: Nuclear Reactor Theory and Experiments, Part 2. (SS 2016. Blockvorlesung, Interuniversity Programme in Nuclear Engineering, Belgian Nuclear Higher Education Network (BNEN), Universiteit Gent).

Noterdaeme, J.-M.: Plasma Physics. (WS 2014/2015. Vorlesung, Universiteit Gent).

Noterdaeme, J.-M.: Plasma Technology. (SS 2015. Vorlesung, Universiteit Gent).

Noterdaeme, J.-M.: Theory of the Nuclear Reactor, Part 2. (WS 2014/2015. Vorlesung, Universiteit Gent).

Noterdaeme, J.-M.: Theory of the Nuclear Reactor, Part 2. (WS 2015/2016. Vorlesung, Universiteit Gent).

Noterdaeme, J.-M., Bobkov, V., Fünfgelder, H., D'Inca, R., Ochoukov, R., Jacquot, J., Stepanov, I., Zhang, W., Faugel, H., Cromb  , K., Ragona, R., Messiaen, A., Van Eester, D., Tuccillo, A. A., Tudisco, O., Rocchi, G., Yang, Q., Milanesio, D., Maggiore, R., Colas, L., Heuraux, S., Faudot, E., Moritz, J., Silva, A., ASDEX Upgrade Team, and EUROfusion MST1 Team: Innovations that Make the Use of Ion Cyclotron Power Suitable for Fusion Reactors. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Noterdaeme, J.-M., Crombe, K., D'Inca, R., Ochoukov, R., Jacquot, J., Morgal, I., Louche, F., Van Eester, D., Heuraux, S., Devaux, D., Moritz, J., Faudot, E., Fünfgelder, H., and Faugel, H.: IShTAR, a dedicated Facility for ICRF and Plasma Edge Research. (22nd IAEA Technical Meeting on Research Using Small Fusion Devices, 2015-10-12 to 2015-10-14, Prague).

N  hrenberg, C.: Free-boundary Ideal MHD Stability of W7-X Divertor Equilibria. (20th International Stellarator-Heliontron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Nunes, I., Lomas, P. J., Challis, C., Rimini, F., Hobirk, J., Frassinetti, L., Drewelow, P., Baruzzo, M., Balboa, I., Beurskens, M., Frigione, D., Garcia, J., Giroud, C., Joffrin, E., Luna, E. de la, Menmuir, S., Sips, A. C. C., Voitsekhovitch, I., Wiesen, S., and JET Contributors: Plasma confinement at JET (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Oberkofler, M., Alegre, D., Aumayr, F., Brezinsek, S., Craven, R., Dittmar, T., Dobes, K., Douai, D., Drenik, A., Keenan, T., K  ppen, M., Kruezi, U., Loarer, T., Linsmeier, C., Lungu, C. P., Maslov, M., Meisl, G., Mozetic, M., Porosnicu, C., Rohde, V., Romanelli, S. G., ASDEX Upgrade Team, and JET Contributors: Nitrogen retention mechanisms in tokamaks with metallic plasma-facing materials. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Oberkofler, M., Balden, M., and Meisl, G.: Fluence and temperature dependence of tungsten nitride erosion by monoenergetic deuterium ions. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Oberlin, H., Restelli, M., and Maj, O.: Fictitious time-evolution for steady state strongly non linear transport equations. (DPG-Fr  hjahrstagung der Sektion Atome, Molek  le, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Oberparleiter, M., Doerk, H., Jenko, F., G  rler, T., Nordman, H., and Told, D.: Interaction between turbulence and neoclassical effects in global gyrokinetic simulations with GENE. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Oberparleiter, M., Doerk, H., Jenko f., F., G  rler, T., and Told, D.: Interaction between turbulence and neoclassical effects in global gyrokinetic simulations. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Ochoukov, R., Bobkov, V., Angioni, C., Bernert, M., Dunne, M., Dux, R., Neu, R., Noterdaeme, J.-M., Odstrcil, T., P  tterich, T., Reimold, F., and ASDEX Upgrade Team: Evolution of ELM My H-mode performance in presence of core radiation on ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Ochoukov, R., Bobkov, V., Brucker, B., Faugel, H., F  nfgelder, H., Jacquot, J., Kneidl, J., Noterdaeme, J.-M., Siegl, G., Suarez Lopez, G., and ASDEX Upgrade Team: ICRF Wave Field Measurements in the Presence of Scrape off Layer Turbulence on the ASDEX Upgrade Tokamak. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Odstrcil, T., P  tterich, T., Angioni, C., Bilato, R., Gude, A., Mazon, D., Vezinet, D., and ASDEX Upgrade Team: Heavy ion transport in the core of ASDEX Upgrade. (DPG-Fr  hjahrstagung der Sektion Atome, Molek  le, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Odstrcil, T., P  tterich, T., Bilato, R., Weiland, M., Mazon, D., Gude, A., and ASDEX Upgrade Team: Investigation the fast particle velocity space by poloidal asymmetries of heavy ions. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Odstrcil, T., P  tterich, T., Mazon, D., Angioni, C., Bilato, R., Gude, A., Vezinet, D., and ASDEX Upgrade Team: Poloidal asymmetries of the heavy ions in the ASDEX Upgrade tokamak. (DPG-Fr  hjahrstagung 2015 der Fachverb  nde Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Odstrcil, T., P  tterich, T., Weiland, M., Odstrcil, M., Gude, A., and ASDEX Upgrade Team: SXR tomography of tungsten

radiation patterns with and without MHD. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Ogorodnikova, O. V., Sugiyama, K., Zhou, Z., Gasparyan, Y., and Efimov, V.: Deuterium retention in reduced-activation ODS steels irradiated with 20 MeV W ions. (12th International Conference on the Mechanical Behavior of Materials (ICM 12), 2015-05-10 to 2015-05-14, Karlsruhe).

Oosterbeek, J., Arts, K., Bol, A. A., Kasparek, W., König, R., Maquet, P., Moseev, D., Sirinelli, A., Udimtsev, V., Vayakis, G., and Walsh, M.: Microwave response of ITER diagnostic vacuum windows. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Oosterbeek, J. W., Maassen, N., Arts, K., Boivin, R., Gandini, F., Hirsch, M., Laqua, H. P., Moseev, D., Muscatello, C., Sirinelli, A., Udimtsev, V. S., and Walsh, M.: R&D for the ITER Stray Radiation Sensors. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Orain, F., Hölzl, M., Lessig, A., Viezzner, E., Dunne, M., Suttrop, W., Kirk, A., Becoulet, M., Morales, J., Huijsmans, G. T. A., Dif-Pradalier, G., Garbet, X., Pamela, S., Nardon, E., Passeron, C., Latu, G., Fil, A., Krebs, I., Günter, S., Cahyna, P., and ASDEX Upgrade Team: Modeling of the ELM control by RMPs in ASDEX Upgrade. (1st JOREK General Meeting, 2015-05-26 to 2015-05-28, Garching).

Orain, F., Hölzl, M., Viezzner, E., Dunne, M., Becoulet, M., Cahyna, P., Huijsmans, G. T. A., Morales, J., Suttrop, W., Kirk, A., Nardon, E., Pamela, S., Fil, A., Lessig, A., and ASDEX Upgrade Team: Non-linear modeling of the plasma response to RMPs in ASDEX Upgrade: towards quantitave predictions for the ELM mitigation with JOREK (28th Meeting of the ITPA Pedestal and Edge Physics (PEP) Topical Group, 2015-10-22 to 2015-10-23, Garching).

Orain, F., Hölzl, M., Viezzner, E., Dunne, M., Becoulet, M., Cahyna, P., Huijsmans, G. T. A., Morales, J., Suttrop, W., Kirk, A., Nardon, E., Pamela, S., Fil, A., Günter, S., Strumberger, E., Lessig, A., ASDEX Upgrade Team, and EUROfusion MST1 Team: Non-linear modeling of the plasma response to RMPs in ASDEX Upgrade: towards quantitave predictions for the ELM mitigation with JOREK. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Orain, F., Hölzl, M., Viezzner, E., Dunne, M., Becoulet, M., Cahyna, P., Huijsmans, G. T. A., Morales, J., Suttrop, W. A., Kirk, A., Nardon, E., Pamela, S., Fil, A., Günter, S., Strumberger, E., Lessig, A., ASDEX Upgrade Team, and EUROfusion MST1 Team: Non-linear modeling of the plasma response to RMPs in ASDEX Upgrade: towards quantitave predictions for the ELM mitigation with JOREK. (597th Wilhelm und Else Heraeus Seminar “Stochasticity in Fusion Plasmas,” 2015-09-10 to 2015-09-12, Bad Honnef).

Orain, F., Lessig, A., Hölzl, M., Viezzner, E., Dunne, M., Becoulet, M., Cahyna, P., Huijsmans, G. T. A., Willensdorfer, M., Suttrop, W., Kirk, A., Pamela, S., Günter, S., Strumberger, E., ASDEX Upgrade Team, and EUROfusion MST1 Team: Non-linear modeling of the Edge Localized Modes and their control by Resonant Magnetic Perturbations in ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Orozco, G., Fröschle, M., Heinemann, B., Hopf, C., Nocentini, R., and Riedl, R.: Characterization and performance improvement of large titanium sublimation pumps in AUG and W7-X NBI. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Orozco, G., Fröschle, M., Heinemann, B., Hopf, C., Nocentini, R., and Riedl, R.: Preliminary results of the optimization of the large titanium sublimation pumps for the W7-X neutral beam injection system. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Otte, M., Andreeva, T., Biedermann, C., Bozhenkov, S., Bräuer, T., Endler, M., Geiger, J., Kocsis, G., Lazerson, S., Szepesi, T., Pedersen, T. S., and W7-X Team: Magnetic Flux Surface Measurements at Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Otte, M., Andreeva, T., Biedermann, C., Bozhenkov, S., Geiger, J., Lazerson, S., and Pedersen, T. S.: Magnetic Flux Surface Measurements at the Wendelstein 7-X Stellarator. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Otte, M., Assmus, D., Dudek, A., Bozhenkov, S., Bräuer, T., Biedermann, C., Geiger, J., Kocsis, G., Lazerson, S., Schauer, F., Szepesi, T., and Pedersen, T. S.: Setup and Initial Results from the Magnetic Flux Surface Diagnostics at Wendelstein 7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Pablant, N. A., Langenberg, A., Bitter, M., Delgado-Aparicio, L., Gates, D. A., Hill, K. W., Mardenfeld, M., and Neilson, G. H.: Expected performance and recent results from the X-ray imaging crystal spectrometer on the W7-X stellarator. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Pablant, N. A., Langenberg, A., Satake, S., Landreman, M., Alonso, A., Beidler, C. D., Beurskens, M., Bozhenkov, S., Burhenn, R., Dinklage, A., Fuchert, G., Gates, D. A., Geiger, J., Hirsch, M., Knauer, J., Lazerson, S., Marchuk, O., Marushchenko, N. B., Maassberg, H., Pasch, E., Svensson, J., Traverso, P., Turkin, Y., Valson, P., Velasco, J. L., Weir, G., Wolf, R. C., Yokoyama, M., Zhang, D., and W7-X Team: Investigation of the Core Radial Electric Field in Wendelstein 7-X Plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pablant, N. A., Satake, S., Yokoyama, M., Gates, D. A., Dinklage, A., Kubo, S., Yoshimura, Y., and LHD Experiment Group: Evolution of the radial electric field in high- T_e electron root plasmas on LHD. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Paccagnella, R., Maraschek, M., Fietz, S., Giannone, L., Gude, A., Igochine, V., Marrelli, L., Piovesan, P., Reich, M., Suttrop, W., Zanca, P., ASDEX Upgrade Team, and EUROfusion MST1 Team: Entrainment of MHD modes in ASDEX Upgrade using rotating non-axisymmetric perturbation fields. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Palermo, F., Biancalani, A., Angioni, C., Zonca, F., Bottino, A., and Conway, G. D.: Decay of geodesic acoustic modes in the presence of a strong temperature gradient. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pamela, S., Eich, T., Frassinetti, L., Saarelma, S., Huijsmans, G., Hözl, M., Becoulet, M., Orain, F., Devaux, S., Chapman, I., Solano, E., and JET Contributors: Nonlinear MHD Simulations of ELMs in JET and Quantitative Comparisons to Experiments. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Pamela, S., Huijsmans, G., Hözl, M., Becoulet, M., Orain, F., Liu, F., Fil, A., Nardon, E., Morales, J., Lessig, A., and Krebs, I.: Non-Linear MHD Simulation with JOREK on HELIOS-CSC. (4th IFERC-CSC Review Meeting, 2016-03-15, Sendai).

Papp, G., Drevlak, M., Fülöp, T., Pokol, G. I., and Helander, P.: Effects of stochastic fields on runaways. (597th Wilhelm und Else Heraeus Seminar “Stochasticity in Fusion Plasmas,” 2015-09-10 to 2015-09-12, Bad Honnef).

Papp, G., Pautasso, G., Decker, J., Gobbin, M., McCarthy, P. J., Blanchard, P., Carnevale, D., Choi, D., Coda, S., Duval, B., Dux, R., Erdős, B., Esposito, B., Ficker, O., Fischer, R., Fuchs, C., Galperti, C., Giannone, L., Gude, A., Labit, B., Lackner, K., Lunt, T., Marelli, L., Martin, P., Mlynek, A., Maraschek, M., Marmillod, P., Nocente, M., Peysson, Y., Piovesan, P.,

Plyusnin, V. V., Pokol, G. I., Poloskei, P. Z., Potzel, S., Reux, C., Saint-Laurent, F., Sauter, O., Sieglin, B., Sheikh, U., Sommariva, C., Suttrop, W., Tardini, G., Testa, D., Treutterer, W., Valisa, M., ASDEX Upgrade Team, TCV Team, and EUROfusion MST1 Team: Runaway electron generation and mitigation on the European medium sized tokamaks ASDEX Upgrade and TCV. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Papp, G., Pautasso, G., McCarthy, P. J., Fuchs, C., Dux, R., Potzel, S., Sertoli, M., Tardini, G., Lackner, K., Scarabosio, A., Mlynek, A., Giannone, L., and ASDEX Upgrade Team: Progress in coupled kinetic-fluid simulations and the latest experimental results from ASDEX Upgrade. (3rd Runaway Electron Meeting (REM), 2015-06-17 to 2015-06-19, Pertuis).

Papp, G., Stahl, A., Lauber, P., Feher, T., and Fülöp, T.: Towards self-consistent runaway electron modelling. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Papp, G., Stahl, A., Lauber, P., and Fülöp, T.: Coupled kinetic-fluid simulation of runaway electron dynamics. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Paradela Perez, I., Scarabosio, A., Groth, M., Wischmeier, M., Reimold, F., and ASDEX Upgrade Team: SOL parallel momentum loss in ASDEX-Upgrade and comparison with SOLPS (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Pardanaud, C., Giacometti, G., Martin, C., Allouche, A., Ferro, Y., Roubin, P., Oberkofler, M., Köppen, M., Dittmar, T., Linsmeier, C., Lungu, C., Porosnicu, C., Jepu, I., Dinca, P., Lungu, M., Pompilian, O. G., Mateus, R., and Alves, E.: Raman spectroscopy investigation of beryllium based materials. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Pasch, E., Beurskens, M., Bozhenkov, S., Fuchert, G., Hirsch, M., Höfel, U., Knauer, J., Kornejew, P., Langenberg, A., Pablant, N., Wolf, R. C., and W7-X Team: First Results from the Thomson Scattering System at the Stellarator Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pasch, E., Beurskens, M. N. A., Bozhenkov, S. A., Fuchert, G., Knauer, J., Wolf, R. C., and W7-X Team: The Thomson Scattering System at Wendelstein 7-X. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Paschkowski, N., Niemann, H., and Pedersen, T. S.: Mini-Stellarator for public outreach. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Pautasso, G., Bernert, M., Dibon, M., Duval, B., Dux, R., Fable, E., Fuchs, C., Conway, G. D., Giannone, L., Gude, A., Herrmann, A., Hözl, M., McCarthy, P. J., Mlynek, A., Maraschek, M., Nardon, E., Papp, G., Potzel, S., Rapson, C., Sieglin, B., Suttrop, W., Treutterer, W., ASDEX Upgrade Team, and EUROfusion MST1 Team: Disruption mitigation studies at ASDEX Upgrade in support of ITER. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Pautasso, G., Bernert, M., Duval, B., Dux, R., Fable, E., Fuchs, C., Giannone, L., Gude, A., Hözl, M., McCarthy, P. J., Mlynek, A., Maraschek, M., Nardon, E., Papp, G., Potzel, S., Rapson, C., Sieglin, B., Suttrop, W., Treutterer, W., Dibon, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Disruption mitigation studies at ASDEX Upgrade in support of ITER. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pautasso, G., Papp, G., Bernert, M., McCarthy, P. J., Mlynek, A., Potzel, S., Sieglin, B., Tardini, G., Vezinet, D., and ASDEX Upgrade Team: Generation and suppression of runaway electrons in ASDEX Upgrade disruptions. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Pavei, M., Böswirth, B., Greuner, H., Marcuzzi, D., Rizzolo, A., and Valente, M.: Development and tests of Molybdenum armed copper components for MITICA ion source. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Pedersen, T. S.: Fusionsplasmaphysik. (SS 2016. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Pedersen, T. S.: Progress on creating confined electron-positron plasmas in the laboratory. (Technische Universität Berlin, Zentrum für Astronomie und Astrophysik, 2016-06-10, Berlin).

Pedersen, T. S.: Recent developments and present challenges in magnetic confinement fusion research. (WS 2015/2016. Seminar, Ernst-Moritz-Arndt-Universität Greifswald).

Pedersen, T. S.: Transport and exhaust in island divertors. (597th Wilhelm und Else Heraeus Seminar “Stochasticity in Fusion Plasmas,” 2015-09-10 to 2015-09-12, Bad Honnef).

Pedersen, T. S., and Klinger, T.: Hochtemperaturplasmaphysik I. (WS 2014/2015. Vorlesung, Ernst-Moritz-Arndt-Universität Greifswald).

Pedersen, T. S., König, R., Baldzuhn, J., Barbui, T., Beurskens, M., Bosch, H.-S., Brakel, R., Burhenn, R., Biedermann, C., Bozhenkov, S., Dinklage, A., Effenberg, F., Endler, M., Gates, D., Geiger, J., Grulke, O., Hartmann, D., Hathiramani, D., Helander, P., Hirsch, M., Jakubowski, M., Klinger, T., Knauer, J., Kocsis, G., Kornejew, P., Krychowiak, M., Laqua, H. P., Lazerson, S., Neuner, U., Niemann, H., Otte, M., Pablant, N., Pasch, E., Rahbarnia, K., Schmitz, O., Schneider, W., Standley, B., Stange, T., Stephey, L., Szepesi, T., Thomsen, H., Traverso, P., Wenzel, U., Wolf, R. C., Wurden, G. A., Zhang, D., and W7-X Team: Results from the first physics operation of Wendelstein 7-X. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Pedersen, T. S., König, R., Otte, M., Standley, B., Endler, M., Jakubowski, M., Krychowiak, M., Baldzuhn, J., Biedermann, C., Kornejew, P., Wenzel, U., Niemann, H., Klinger, T., Rahbarnia, K., Grulke, O., Wolf, R. C., Laqua, H. P., Bozhenkov, S., Pasch, E., Dinklage, A., Hirsch, M., Stange, T., Beurskens, M., Hartmann, D., Helander, P., Geiger, J., Bosch, H.-S., Brakel, R., Szepesi, T., Kocsis, G., Wurden, G. A., Gates, D., Lazerson, S., Pablant, N., Stephey, L., Barbui, T., Effenberg, F., Schmitz, O., and W7-X Team: Highlights from the first operation phase of W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pedersen, T. S., Otte, M., Biedermann, C., Bozhenkov, S., Bräuer, T., Lazerson, S., and W7-X Team: First flux surface measurements on W7-X. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Pedersen, T. S., and W7-X Team: First Results from Wendelstein 7-X (The Exploratory Plasma and Fusion Research Workshop (EPR 2016), 2016-02-23 to 2016-02-26, Auburn, AL).

Pedersen, T. S., and W7-X Team: Overview of physics results from the first operation phase on Wendelstein 7-X. (USBPO Web Seminar MIT, 2016-04-28, Boston, MA).

Pegourie, B., Day, C., Frattolillo, A., Koechl, F., and Lang, P. T.: Physical constraints on the design of the DEMO pellet fueling system. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pehkonen, S.-P., Tala, T., Salmi, A., McDermott, R. M., Angioni, C., Delabie, E., Duval, B., Ferreira, J., Giroud, C., Hillesheim, J., Maslov, M., Menmuir, S., Pütterich, T., Reich, M., Ryter, F., Tsallas, M., Weisen, H., EUROfusion MST1 Team,

ASDEX Upgrade Team, and JET Contributors: Experimental determination and normalised ion gyroradius scaling of intrinsic torque in ASDEX Upgrade and JET. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Penzel, F., Meister, H., Zhang, D., and Giannone, L.: Calibration parameter drift compensation of metal resistive bolometers operating in a thermal varying environment. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Peraza-Rodriguez, H., Sanchez, R., Geiger, J., Tribaldos, V., Reynolds-Barredo, J., and Hirshman, S. P.: Development of a free-boundary version of SIESTA: application to the Wendelstein 7-X stellarator. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Perez von Thun, C., Frassinetti, L., Beurskens, M., Saarelma, S., Lupelli, I., Leyland, M., Flanagan, J., Giroud, C., Tsalas, M., Boom, J., Maggi, C., Urano, H., Solano, E., Simpson, J., and JET Contributors: Pedestal MHD stability at JET – an experimentalist's view. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Perz, M., Bucher, E., Höschen, C., and Sitte, W.: Long-term stability of $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ thin film SOFC cathodes. (6th International Congress on Ceramics (ICC6), 2016-08-21 to 2016-08-25, Dresden).

Pesamosca, F., Manz, P., and Passoni, M.: Electromagnetic resistive-interchange model for type-III ELM-like limit cycles. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Peterson, B. J., Sano, R., Zhang, D., Feng, Y., Mukai, K., Jakubowski, M., Krychowiak, M., König, R., and Pedersen, T. S.: Detailed design of imaging bolometer fields of view for Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Peterson, B. J., Zhang, D., Jakubowski, M., Feng, Y., Sano, R., Mukai, K., and W7-X Experiment Group: Preliminary design of an imaging bolometer for W7-X. (25th International Toki Conference (ITC 25), 2015-11-03 to 2015-11-06, Toki).

Petersson, P., Garcia-Carrasco, A., Schwarz-Selinger, T., Krieger, K., Wauters, T., Douai, D., Möller, S., Bobkov, V., Lyssoivan, A., Rubel, M., Rohde, V., EUROfusion MST1 Team, and ASDEX Upgrade Team: Investigation of probe surfaces after ion cyclotron wall conditioning in ASDEX Upgrade.

(22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Peysson, Y., Anastassiou, G., Artaud, J.-F., Budai, A., Decker, J., Embréus, O., Ficker, O., Fülöp, T., Hirvijoki-, E., Hizanidis, K., Kominis, Y., Kurki-Suonio, T., Lauber, P., Lohner, R., Mlynár, J., Nardon, E., Newton, S., Nilsson, E., Papp, G., Paprok, R., Pokol, G., Saint-Laurent, F., Reux, C., Sarkimaki, K., Sommariva, C., Stahl, A., Vlainic, M., and Zestanakis, P.: A European Effort for Kinetic Modelling of Runaway Electron Dynamics. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Pilopp, D., Biedermann, C., König, R., Pedersen, T. S., Koscis, G., and Szepesi, T.: Visual diagnostics at Wendelstein 7-X Stellarator. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Pintsuk, G., Antusch, S., Coenen, J. W., Eskhult, J., Gustafsson, C., Loewenhoff, T., Reiser, J., Riccardi, B., Riesch, J., Rieth, M., Wikman, S., Wirtz, M., and You, J. H.: Research needs and critical issues for divertor components in ITER and DEMO. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Pinzon, J. R., Happel, T., Blanco, E., Conway, G. D., Estrada, T., Hennequin, P., Stroth, U., and ASDEX Upgrade Team: Modeling of Radial Correlation Doppler Reflectometry's Response to Density Turbulence Wave Number Spectra. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Pinzon, J. R., Happel, T., Blanco, E., Estrada, T., Hennequin, P., Stroth, U., and ASDEX Upgrade Team: Modelling of Radial Correlation Doppler Reflectometry using 2D Full Wave Simulations: X- O-mode comparison. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Pinzon, J. R., Happel, T., Hennequin, P., Blanco, E., Estrada, T., Stroth, U., and ASDEX Upgrade Team: O- and X-mode Radial Correlation Doppler Reflectometry in 2D Full Wave Simulations and Experiments. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Pinzon, J. R., Happel, T., Hennequin, P., Stroth, U., and ASDEX Upgrade Team: Application of Radial Correlation Doppler Reflectometry on the ASDEX Upgrade tokamak. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Piovesan, P., Igochine, V., Liu, Y. Q., Maraschek, M., Marrelli, L., Ryan, D., Suttrop, W., Yadykin, D., Gobbin, M., Terranova, D., Ferraro, N. M., King, J. D., Lanctot, M. J., Strait, E. J., Bogomolov, A., Classen, I. G. J., Dunne, M., Gude, A., McDermott, R., Reich, M., Wolfrum, E., and ASDEX Upgrade Team: High-resolution internal measurements of 3D plasma response for model validation in high- β plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Piovesan, P., Igochine, V., Turco, F., Chrystal, C., Classen, I., Dunne, M., Ferraro, N. M., Gude, A., Holcomb, C. T., Lauber, P., Liu, Y. Q., Luce, T. C., Maraschek, M., Marrelli, L., McDermott, R., Reich, M., Ryan, D. A., Suttrop, W., Taylor, N. Z., Terranova, D., Weiland, M. ASDEX Upgrade Team, DIII-D Team, and EUROfusion MST1 Team: Impact of ideal MHD stability limits on high- β hybrid operation. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Piron, C., Felici, F., Kim, D., Rapson, C. J., Reich, M., Sauter, O., Treutterer, W., Brand, H. van den, Manduchi, G., Marchiori, G., Marrelli, L., Kudlacek, O., Piovesan, P., Taliercio, C., ASDEX Upgrade Team, and RFX-mod Team: Real-time simulation of internal profiles in the presence of sawteeth using the RAPTOR code and applications to ASDEX Upgrade and RFX-mod. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Plank, U., Meisl, G., and Höschen, T.: Study of the Temperature Dependent Nitrogen Retention in Tungsten Surfaces by XPS-Analysis. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Plaum, B., Lechte, C., Kasparek, W., Zeitler, A., Erckmann, V., Laqua, H. P., Weißgerber, M., Bechtold, A., Busch, M., and Szcepaniak, B.: Remote-steering Launchers for the ECRH System on the Stellarator W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Plöckl, B., Day, C., Frattolillo, A., Igitkhanov, Y., Lang, P. T., Pegourie, B., and Zohm, H.: Fuelling technology for DEMO, state of the art. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Plöckl, B., and Lang, P. T.: Conceptual design of the DEMO gas injection system. (DEMO WP TFV Project Meeting 3, 2015-11-17 to 2015-11-19, CCFE, Abingdon, Oxfordshire).

Plunk, G. G., Banon Navarro, A., and Bird, T.: On the non-linear generation of zonal flows by turbulence in stellarators. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Plunk, G. G., Banon Navarro, A., and Bird, T.: On the non-linear generation of zonal flows by turbulence in stellarators. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Plunk, G. G., Banon Navarro, A., Bird, T., and Xanthopoulos, P.: On the generation of zonal flows and saturation of turbulence in general magnetic geometry. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Polevoi, A. R., Loarte, A., Bilato, R., Bertalot, L., Budny, R. V., Fable, E., Gorelenkova, M., Loughlin, M., and Polunovskiy, E.: Assessment of neutron emission from DD to DT operation of ITER. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Poli, E.: Plasma Physics: Fundamentals. (WS 2015/2016. Vorlesung/Übung, Universität Ulm).

Poli, E., Maj, O., Weber, H., Sysoeva, E., and Gusakov, E.: Scattering of electromagnetic wave beams from density fluctuations in tokamak plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Possanner, S.: Closure of strongly-magnetized electron fluid equations in the adiabatic regime. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Potzel, S., Dunne, M., Dux, R., Guimarais, L., Reimold, F., Scarabosio, A., Wischmeier, M., and ASDEX Upgrade Team: On the high density in the HFS far SOL at ASDEX Upgrade and its impact on plasma confinement. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Preuss, R., and Toussaint, U. von: Investigations on Bayesian uncertainty quantification with two examples. (35th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering (MaxEnt 2015), 2015-07-19 to 2015-07-24, Potsdam, NY).

Preuss, R., and Toussaint, U. von: Parallel Computation of Gaussian Processes. (36th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering (MaxEnt 2016), 2016-07-10 to 2016-07-15, Ghent).

Prisiazhniuk, D., Krämer-Flecken, A., Conway, G. D., Happel, T., Manz, P., Simon, P., Stroth, U., and ASDEX Upgrade Team: Application of Poloidal Correlation Reflectometry to study turbulence at ASDEX Upgrade. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Prisiazhniuk, D., Krämer-Flecken, A., Conway, G. D., Manz, P., Happel, T., Stroth, U., and ASDEX Upgrade Team: Study of TEM-ITG turbulence transitions using Poloidal Correlation Reflectometry at AUG. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Prisiazhniuk, D., Krämer-Flecken, A., Conway, G. D., Stroth, U., Happel, T., Lebschy, A., Manz, P., and ASDEX Upgrade Team: Characterization of the turbulence during LOC-SOC transition using Poloidal Correlation Reflectometry at ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Prisiazhniuk, D., Krämer-Flecken, A., Conway, G., Stroth, U., and ASDEX Upgrade Team: Study of Turbulence Structures using Poloidal Correlation Reflectometry at AUG. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Proll, J. H. E., Faber, B. J., Helander, P., Lazerson, S. A., Mynick, H. E., and Xanthopoulos, P.: Microturbulence simulations in optimised stellarators. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Proll, J. H. E., Faber, B. J., Helander, P., Lazerson, S. A., Mynick, H. E., and Xanthopoulos, P.: TEM turbulence in stellarators – its simulation and its optimization. (2015 International Sherwood Fusion Theory Conference, 2015-03-16 to 2015-03-18, New York, NY).

Proll, J. H. E., Faber, B. J., Helander, P., Lazerson, S. A., Mynick, H. E., and Xanthopoulos, P.: Turbulence optimisation in stellarator experiments. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Proll, J. H. E., Görler, T., Weir, G. M., Xanthopoulos, P., and W7-X Team: Localisation of microturbulence in the magnetic field of Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Proll, J. H. E., Grulke, O., Weir, G., Windisch, T., Xanthopoulos, P., and W7-X Team: Gyrokinetic turbulence in the first operational phase(s) of Wendelstein 7-X. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Proll, J. H. E., Mynick, H. E., Xanthopoulos, P., Helander, P., Lazerson, S. A., and Faber, B. J.: TEM turbulence optimisation in stellarator experiments. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Pütterich, T., Fable, E., Dux, R., Neu, R., O'Mullane, M. G., and Wenninger, R.: Impurity Limits for a Reactor Grade Fusion Device. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Pütterich, T., Fable, E., Dux, R., O'Mullane, M., Wenninger, R., Neu, R., and Siccinio, M.: The Role of Impurities in a Reactor. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Pütterich, T.: Kontrolle von Hoch-Z Verunreinigungen in Fusionsplasmen. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Qian, X., Peng, X., Fellinger, J., Bykov, V., Wang, Z., Ye, M., and Song, Y.: Assessment of the W7-X High Heat Flux Divertor with Thermo-mechanical Analysis. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

Rack, M., Reiter, D., Feng, Y., Börner, P., and Hasenbeck, F.: A hybrid fluid-kinetic approach for 3D plasma edge transport in He-plasmas at Wendelstein 7-X. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Rack, M., Reiter, D., Hasenbeck, F., Feng, Y., and Börner, P.: Fluid-kinetisches Hybrid Modell für Plasmarandtransport in He-Plasma am Stellarator Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Rack, M., Sieglin, B., Eich, T., Liang, Y., Balboa, I., Denner, P., Pearson, J., Wingen, A., and JET Contributors: Influence of resonant magnetic perturbations on transient heat load deposition – a short review. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Rack, M., Sieglin, B., Liang, Y., Eich, T., Balboa, I., Denner, P., Gan, K. F., Li, J. G., Liu, F. K., Pearson, J., Shen, B., Wan, B. N., Wang, L., Wingen, A., Zeng, L., JET Contributors, and EAST Team: Influence of resonant magnetic perturbations on transient heat load deposition. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Rahbarnia, K., Andreeva, T., Cardella, A., Carvalho, B. B., Endler, M., Hathiramani, D., Geiger, J., Grulke, O., Lazerson, S., Neuner, U., Svensson, J., Thomsen, H., Werner, A., and W7-X Team: Commissioning of the magnetic diagnostics during the first operation phase at Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Rahbarnia, K., Andreeva, T., Cardella, A., Carvalho, B., Endler, M., Hathiramani, D., Grulke, O., Neuner, U., Svensson, J., Thomsen, H., Geiger, J., and Werner, A.: Magnetic diagnostics at Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Rakha, A., Garland, S., Ramisch, S., and Scott, B. D.: Blob dynamics simulations for the TJ-K plasma. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Rapson, C. J., Felici, F., Galperti, C., Lang, P. T., Lennholm, M., Maljaars, B., Maraschek, M., Plöckl, B., Reich, M., Sauter, O., Stober, J., Treutterer, W., ASDEX Upgrade Team, and EUROfusion MST1 Team: Experiments on actuator management and integrated control at ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Rapson, C. J., Fischer, R., Giannone, L., Reich, M., Treutterer, W., and ASDEX Upgrade Team: Real-time data fusion for nuclear fusion. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Rasinski, M., Möller, S., Steffens, J., Unterberg, B., Brandt, C., Sugiyama, K., Schwarz-Selinger, T., Kreter, A., and Linsmeier, C.: Morphology and composition of Fe-W model alloys after deuterium plasma exposure. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Rasinski, M., Möller, S., Steffens, J., Unterberg, B., Sugiyama, K., Schwarz-Selinger, T., Kreter, A., and Linsmeier, C.: Surface morphology and composition of Eurofer steel and Fe-W model alloys after deuterium plasma exposure. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Rasmussen, J., Nielsen, S. K., Stejner, M., Jacobsen, A. S., Korsholm, S. B., Leipold, F., Salewski, M., Geiger, B., Ryter, F., Schubert, M., Stober, J., Wagner, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Investigating fast-ion transport due to sawtooth crashes using Collective Thomson Scattering. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Ratnani, A., Nkonga, B., Franck, E., Caldini-Queiros, C., Mendoza, L., Latu, G., Grandgirard, V., Sonnendrücker, E., Hölzl, M., and Guillard, H.: Django-Jorek code: a numerical

box for MHD discretization and JOREK. (Workshop IPL Fratres 2015, 2015-09, Nice).

Rauner, D., Briefi, S., and Fantz, U.: Einfluss verschiedener Gefäßmaterialien auf Dissoziationsgrad und Rotationsbesetzung molekularen Wasserstoffs in einem ICP. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Rauner, D., Briefi, S., Gutmann, P., Kurt, S., and Fantz, U.: Influence of a weak external B-field on the plasma parameters and spatial emission profiles of inductively and Helicon-coupled hydrogen discharges. (32nd International Conference on Phenomena of Ionized Gases (ICPIG 2015), 2015-07-26 to 2015-07-31, Iasi).

Rauner, D., Briefi, S., Samet, K., and Fantz, U.: Einfluss eines externen Magnetfeldes auf die räumlichen Emissionsprofile eines HF-angeregten Wasserstoffplasmas. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Rauner, D., Mattei, S., Briefi, S., Fantz, U., Hatayama, A., Lettry, J., Nishida, K., and Tran, M. Q.: Investigation of the RF-efficiency of inductively coupled hydrogen plasmas at 1 MHz. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Raupp, G., Treutterer, W., Rapson, C., Humphreys, D., Walker, M. L., Ambrosino, G., De Tommasi, G., Cinque, M., Bremond, S., Moreau, P., and Nouailetas, R.: Preliminary Exception Handling Analysis for the ITER Plasma Control System. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Refy, D. I., Solano, E. R., Vianello, N., Zoleznik, S., Dunai, D., Tal, B., Brix, M., Gomes, R., Wolfrum, E., Birkenmeier, G., Laggner, F., Delabie, E., ASDEX Upgrade Team, and JET Contributors: Comparative analysis of density profile and magnetic signals during the JET M-mode and ASDEX Upgrade I-phase phenomena. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Reimerdes, H., Aho-Mantila, L., Albanese, R., Ambrosino, R., Arter, W., Brezinsek, S., Bufferand, Calabro, G., Ciraolo, G., Coster, D., Fernandes, H., Harrison, J., Kaldre, I., Lackner, K., Lielausis, O., Loureiro, J., Lunt, T., Mazzitelli, G., McIntosh, S., Militello, F., Morgan, T., Pelekasis, N., Pelka, G., Pericoli, V., Philipps, V., Subba, F., Tabares, F., Viola, B., Wenninger, R., Zagorski, R., and Zohm, H.: EUROfusion Assessment of Alternative Divertor Solutions for DEMO. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Reimerdes, H., Aho-Mantila, L., Albanese, R., Ambrosino, R., Brezinsek, S., Calabro, G., Ciraolo, G., Fernandes, H., Lackner, K., Lielausis, O., Mazzitelli, G., Militello, F., Pelekasis, N., Pelka, G., Pericoli, V., Philipps, V., Tabares, F., Wenninger, R., and Zohm, H.: Towards an Assessment of Alternative Divertor Solutions for DEMO. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Reimerdes, H., Alberti, S., Bruzzone, P., Chavan, R., Coda, S., Duval, B., Fasoli, A., Karpushov, A., Lipschultz, B., Lunt, T., Moret, J.-M., Sauter, O., Sudki, B., Uglietti, D., and Wischmeier, M.: TCV divertor upgrade for alternative magnetic configurations. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Reimerdes, H., Canal, G. P., Ciraolo, G., Duval, B. P., Labit, B., Lipschultz, B., Lunt, T., Nespoli, F., Sheikh, U., Theiler, C., Tsui, C., Verhaegh, K. H. A., and Vijvers, W. A. J.: Experimental Studies of the Snowflake Divertor in TCV. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Reimold, F., Bernert, M., Kallenbach, A., Lipschultz, B., Potzel, S., Reinke, M. L., Wischmeier, M., and ASDEX Upgrade Team: The X-point radiation regime in detached H-Modes in full-tungsten ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Reimold, F., Wischmeier, M., Potzel, S., Guimarais, L., Reiter, D., Bernert, M., Dunne, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: The High-field Side High Density Region in SOLPS-Modeling of Nitrogen-seeded H-Modes in ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Reinke, M. L., Delabie, E., Lore, J., Canik, J., Mumgaard, R., Brunner, D., LaBombard, B., Terry, J., Reimold, F., Bernert, M., Potzel, S., Viezzzer, E., Cavedon, M., Meigs, A., Stamp, M., Lawson, K., Coffey, I., Alcator C-Mod Team, EUROfusion MST1 Team, ASDEX Upgrade team, and JET Contributors: Expanding the role of impurity spectroscopy for investigating the physics of high-Z dissipative divertors. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Renard, S., Holtz, A., Banduch, M., and Baylard, C.: A software eco-system for the integrated design of W7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Renard, S., Holtz, A., Baylard, C., Banduch, M., and Hartmann, D. A.: A Software Ecosystem for the Integrative Design of W7-X. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Restelli, M., Maj, O., and Oberlin, H.: Finite element modeling of the plasma scrape off layer in nuclear fusion device. (10th International Workshop on Variational Multiscale and Stabilized Finite Elements (VMS 2015), 2015-02-25 to 2015-02-27, Garching).

Revel, A., Mochalskyy, S., Wunderlich, D., Fantz, U., and Minea, T.: ONIX results: Comparison of grid geometry (Batman – ELISE – flat grid). (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Reyes Cortes, S., Alper, B., Alves, D., Baruzzo, M., Bernardo, J., Buratti, P., Coelho, R., Challis, C., Chapman, I., Hawkes, N., Hender, T. C., Hobirk, J., Joffrin, E., and JET Contributors: MHD marking using the MSE polarimeter optics in JET ILW plasmas. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Ribeiro, T., Da Silva, F., and Heuraux, S.: Parallelization of the full-wave code REFMULX. (HPC Days, 2016-04-06 to 2016-04-08, Lyon).

Riccardo, V., Matthews, G. F., Eich, T., Balboa, I., and JET Contributors: Power footprint definition for JET divertor protection. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Ricci, P., Morales, J., Nespoli, F., Paruta, P., Riva, F., Wersal, C., Boedo, J. A., Furno, I., Halpern, F. D., Labit, B., Loizu, J., Jolliet, S., Jorge, R., Mosetto, A., Tsui, C., TCV Team, and EUROfusion MST1 Team: Progress in simulating SOL plasma turbulence with the GBS code. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Richou, M., Gallay, F., Li, M., Visca, E., You, J.-H., Missirlian, M., and Magaud, P.: Development of a graded W/CuCrZr divertor for DEMO reactor. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Richou, M., Missirlian, M., Greuner, H., Pintsuk, G., Hernandez, C., Firdauss, M., Desgranges, C., Guilhem, D., Lipa, M., Vignal, N., Mourau, G., Coquillat, P., Samaille, F., and Bucalossi, J.: Validation program for WEST tungsten coated plasma facing components. (15th International Conference on Plasma-Facing Materials and Components for

Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Riemann, J., Kleiber, R., and Borchardt, M.: Effects of Radial Electric Fields on Linear ITG Instabilities in W7-X and LHD. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Riesch, J., Almanstoetter, J., Aumann, M., Coenen, J. W., Han, Y., Hoeschen, T., Munoz, M., Linsmeier, C., Wendland, B., Zhao, P., and Neu, R.: Chemical deposited tungsten fibre-reinforced tungsten – The way to a mock-up for divertor application. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Riesch, J., Aumann, M., Coenen, J., Gietl, H., Höschens, T., Mao, Y., Linsmeier, C., and Neu, R.: Tungsten fibre-reinforced tungsten composite – development of a new high performance material. (European Conference for Composite Materials (ECCM17), 2016-06-26 to 2016-06-30, Munich).

Riesch, J., Buffiere, J.-Y., Coenen, J. W., Elgeti, S., Gietl, H., Han, Y., Höschens, T., Linsmeier, C., Michiel, M. di, Scheel, M., You, J.-H., and Neu, R.: High energy synchrotron tomography for the development of tungsten fibre-reinforced tungsten composites (W_f/W). (ESRF User Meeting, 2016-02-08 to 2016-02-10, Grenoble).

Riesch, J., Coenen, J., Höschens, T., Jasper, B., Zhao, P., Han, Y., Linsmeier, C., and Neu, R.: Development of tungsten fibre-reinforced tungsten composites towards their use in DEMO – A joint effort of IPP and FZJ. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Riesch, J., Neu, R., Almanstötter, J., Aumann, M., Coenen, J. W., Gietl, H., Höschens, T., Holzner, G., Li, M., Linsmeier, C., and You, J.-H.: Contributions of tungsten-fibre reinforced tungsten composites to divertor concepts of future fusion reactors. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Rieth, M., Antusch, S., Hoffmann, J., Klimenkov, M., Reiser, J., Brezinsek, S., Biel, W., Coenen, J., Linke, J., Linsmeier, C., Litnovsky, A., Loewenhoff, T., Pintsuk, G., Unterberg, B., Wirtz, M., Greuner, H., Kallenbach, A., Neu, R., Riesch, J., You, J. H., Barrett, T., Domptail, F., Dudarev, S., Fursdon, M., Gilbert, M., Galatanu, A., Garrison, L. M., Katoh, Y., Snead, L. L., Armstrong, D., and Roberts, S.: The European R&D Programme on Divertor Armor materials and Technology – Status and Strategy. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Rieth, M., Antusch, S., Reiser, J., Klimenkov, M., Pintsuk, G., Linke, J., Greuner, H., Kallenbach, A., Neu, R., You, J. H., Barrett, T., Fursdon, M., Domptail, F., Garrison, L. M., Snead, L. L., Katoh, Y., Armstrong, D., and Roberts, S.: The impact of materials R&D on the operation of a water-cooled DEMO divertor. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Riße, K., Birus, D., Bykov, V., Carls, A., Dhard, C. P., Köppen, M., Mönnich, T., Nagel, M., Otte, M., Rummel, T., and Schneider, M.: Wendelstein 7-X Commissioning of Superconducting Magnet System. (24th International Conference on Magnet Technology (MT 24), 2015-10-18 to 2015-10-23, Seoul).

Risse, K., Bosch, H.-S., Bykov, V., Carls, A., Mönnich, T., Nagel, M., Rummel, T., and Schneider, M., and W7-X Team: First Operational Phase of the Superconducting Magnet System of Wendelstein 7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Rittich, D., Fantz, U., Hopf, C., Geiger, B., Ryter, F., and ASDEX Upgrade Team: Stromtrieb durch Neutralteilchen-Injektion an ASDEX Upgrade. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Rittich, D., Fantz, U., Hopf, C., Geiger, B., Ryter, F., ASDEX Upgrade Team, and EUROfusion MST1 Team: Stromtrieb durch Neutralteilchen-Injektion an ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Rittich, D., Hopf, C., Geiger, B., Bock, A., Burckhart, A., Mlynek, A., Rapson, C., Reich, M., Ryter, F., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Towards a Better Understanding of Neutral Beam Current Drive and Steady State. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Rizzolo, A., Fröschle, M., Laterza, B., De Muri, M., and Rossetto, F.: Final design and prototyping of the SPIDER caesium ovens. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Rodatos, A., Jakubowski, M., Pedersen, T. S., and Greuner, H.: Method development for detecting divertor failures during steady state. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Rodriguez-Ramos, M., Galdon-Quiroga, J., Garcia-Lopez, J., Garcia-Munoz, M., Jimenez-Ramos, M. C., Lazanyi, N., Pokol, G. I., Por, G., Sanchis-Sanchez, L., and ASDEX Upgrade Team: Absolute calibration of the ASDEX Upgrade fast ion loss detectors. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Rodriguez-Ramos, M., Garcia-Munoz, M., Galdon-Quiroga, J., Garcia Lopez, J., Sanchis-Sanchez, L., Jimenez-Ramos, M. C., Ayllon, J., Marné, P. de, Dominguez, A. D., Gonzalez, J., Herrmann, A., Rivero, J., Sieglin, B., Snicker, A., and ASDEX Upgrade Team: First absolute measurements of fast-ion losses in the ASDEX Upgrade tokamak. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Rohde, V., and ASDEX Upgrade Team: ASDEX Upgrade: vacuum systems at a midsize tokamak experiment. (16th Joint Vacuum Conference (JVC-16), 14th European Vacuum Conference (EVC-14) and 23th Croatian Slovenian International Scientific Meeting on Vacuum Science and Technique, 2016-06-06 to 2016-06-10, Portoroz).

Rohde, V., Balden, M., and ASDEX Upgrade Team: Arc erosion of full metal plasma facing components at the inner baffle region of ASDEX Upgrade. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Rohde, V., Balden, M., and ASDEX Upgrade Team: Erosion of metal plasma facing components by arcing at the inner divertor baffle of ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Ross, A., Stegmeir, A., Coster, D., and Poli, E.: Impact of the Boussinesq approximation on the blob propagation in the scrape-off layer. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Rubel, M., Alves, E., Brezinsek, S., Coad, J. P., Mayer, M., Petersson, P., Widdowson, A., and JET Contributors: The Role and Application of Ion Beam Analysis for Studies of Plasma-Facing Components in Controlled Fusion Devices. (22nd International Conference on Ion Beam Analysis (IBA 2015), 2015-06-14 to 2015-06-19, Opatija).

Rumiantcev, K., Rudischhauser, L., Köhn, A., Holzhauer, E., Kasparek, W., and Lechte, C.: Electron Bernstein Waves in a Linear Device FLiPS. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Rummel, T., Mönnich, T., Füllenbach, F., and Murray, T.: Wendelstein 7-X Magnet Power Supplies: Overview and Status of Commissioning. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Rummel, T., Nagel, M., Bykov, V., Birus, D., Carls, A., Dhard, C. P., Köster, E., Mönnich, T., Riße, K., Schneider, M., Bosch, H.-S., and W7-X Team: Commissioning Results of the Superconducting Magnet System of Wendelstein 7-X. (50th Applied Superconductivity Conference (ASC2016), 2016-09-04 to 2016-09-09, Denver, CO).

Ruset, C., Grigore, E., Luculescu, C., Tiseanu, I., Likonen, J., Mayer, M., Rubel, M., Matthews, G. F., and JET Contributors: Investigation on the erosion/deposition processes in the ITER-like Wall divertor at JET using Glow Discharge Optical Emission Spectrometry technique. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Ryan, D. A., Liu, Y. Q., Piovesan, P., Kirk, A., Dunne, M., Suttorp, W., Dudson, B., ASDEX Upgrade Team, and EUROfusion MST1 Team: Modelling-based high β_N RMP spectrum optimization for ELM mitigation. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Ryan, D. A., Liu, Y. Q., Piovesan, P., Kirk, A., Dunne, M., Suttorp, W., Dudson, B., ASDEX Upgrade Team, and EUROfusion MST1 Team: Modelling-based high β_N RMP spectrum optimization for ELM mitigation. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Ryc, L., Czarnecka, A., Figacz, W., Jablonski, S., Kaczmarczyk, J., Krawczyk, N., Krol, J., Kubowska, M., Biedermann, C., König, R., Thomsen, H., Weller, A., and W7-X Team: Soft X-ray diagnostics for W7-X designed by IPPLM. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Ryter, F., Cavedon, M., McDermott, R. M., Pütterich, T., Willensdorfer, M., Fischer, R., Kurzan, B., Tardini, G., Viezzler, E., and ASDEX Upgrade Team: Key role of edge ion heat flux and neoclassical radial electric field in the L-H transition physics. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Ryter, F., Fischer, R., Fuchs, C. J., Happel, T., Kurzan, B., McCarthy, P., McDermott, R. M., Suttorp, W., Viezzler, E., Willensdorfer, M., Wolfrum, E., and ASDEX Upgrade Team: I-mode results at ASDEX Upgrade: L-I transition and

confinement. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Ryter, F., Fischer, R., Fuchs, J. C., Happel, T., McDermott, R. M., Viezzer, E., Kurzan, B., Pütterich, T., Suttrop, W., Willendorfer, M., Wolfrum, E., and ASDEX Upgrade Team: I-mode studies at ASDEX Upgrade: L-I and I-H transitions, confinement and pedestal properties. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Sahoo, B. P., Sharma, D., Jha, R., and Feng, Y.: Quasi-periodic large scale poloidal variations in 3D EMC3-EIRENE simulations of Aditya circular plasma SOL. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Saitoh, H., Hergenhahn, U., Niemann, H., Paschkowski, N., Pedersen, T. S., Stanja, J., Stenson, E. V., Stoneking, M. R., Hugenschmidt, C., Piochacz, C., Vohburger, S., Schweikhard, L., Danielson, J. R., and Surko, C. M.: Progress toward the creation of magnetically confined pair plasmas. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Salmi, A., Tala, T., Bourdelle, C., Giroud, C., Gomes, R., Hillesheim, J., Järvinen, A., Maggi, C., Mantica, P., Maslov, M., Meneses, L., Menmuir, S., Moradi, S., Mordijk, S., Naulin, V., Nordman, H., Juul Rasmussen, J., Romanelli, M., Sips, G., Svensson, J., Tsalas, M., Weisen, H., Wynn, A., and JET Contributors: Particle transport, sources and density peaking in JET H-mode plasmas. (21st Joint EU-US Transport Task Force Meeting (TTF 2016), 2016-09-05 to 2016-09-08, Leysin).

Salmi, A., Tala, T., Järvinen, A., Mantica, P., Meneses, L., Mordijk, S., Naulin, V., Juul Rasmussen, J., Svensson, J., Giacomelli, L., Gomes, R., Groth, M., Koskela, T., Maggi, C., Maslov, M., Sips, G., Weisen, H., and JET Contributors: Particle source and edge transport studies in JET H-mode gas puff modulation experiments. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Samaddar, D., Coster, D., Bonnin, X., Havlickova, E., Elwasif, W. R., Batchelor, D. B., Berry, L. A., and Bergmeister, C.: Time Parallelizing Edge Plasma Simulations Using the Parareal Algorithm. (17th SIAM Conference on Parallel Processing for Scientific Computing, 2016-04-12 to 2016-04-15, Paris).

Sanchez, E., Calvo, I., Monreal, P., Velasco, J. L., Alonso, A., and Kleiber, R.: Influence of electric fields on zonal flows in stellarators. (Workshop on Electric Fields, Turbulence and

Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Sanchez, E., Monreal, P., Calvo, I., and Kleiber, R.: Relaxation of zonal flows in stellarators: influence of the magnetic configuration. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Sanchez, E., Velasco, J. L., Calvo, I., and Kleiber, R.: Spatial localization of electrostatic microinstabilities in the TJ-II stellarator. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Sanchis, L., Garcia-Munoz, M., Snicker, A., Nocente, M., Galdon-Quiroga, J., Garcia-Lopez, J., Rodriguez-Ramos, M., Ayllon, J., ASDEX Upgrade Team, and EUROfusion MST1 Team: 3D full orbit simulations of the fast-ion transport induced by externally applied magnetic perturbations with different poloidal spectra. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Santos, J. M., Guimaraes, L., Rapson, C., Santos, G., Silva, A., Treutterer, W., Zilker, M., and ASDEX Upgrade Team: Real-Time reflectometry – an ASDEX Upgrade DCS plugin App for plasma position and shape feedback control. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Satake, S., Velasco, J. L., Dinklage, A., Garcia-Regana, J. M., Matsuoka, S., Yokoyama, M., Suzuki, Y., Beidler, C. D., Maaßberg, H., Geiger, J., Pablot, N., and López-Bruna, D.: Validation and Verification of neoclassical transport codes for Heliotron/Stellarator devices. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Satheeswaran, G., Hollfeld, K. P., Nicolai, D., Neubauer, O., Schweer, B., and Grulke, O.: A PCS7-based control and safety system for operation of the W7-X multi-purpose manipulator facility. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Schacht, J., Laqua, H., Müller, I., Skodzik, J., Puttnies, H., and CoDaC Team: The Trigger-Time-Event-System for Wendelstein 7-X: Overview and First Operational Experiences. (20th IEEE-NPSS Real Time Conference (RT2016), 2016-06-05 to 2016-06-10, Padova).

Schauer, F., Bosch, H.-S., Pedersen, T. S., and Wolf, R. C.: W7-X Commissioning: Progress and Lessons Learned for Future Devices. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Schießl, B. W., Birkenmeier, G., Nielsen, A. H., Loiten, M., Thrysoe, A. S., Naulin, V., Stroth, U., and ASDEX Upgrade Team: Development of a Synthetic Lithium Beam Diagnostic for the HESEL Turbulence Code and Application to Blob Transport. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Schmid, B., Manz, P., Ramisch, M., and Stroth, U.: Collisionality dependence of the energy transfer to zonal flows at the stellarator TJ-K. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Schmid, B., Ramisch, M., and Stroth, U.: Investigation of the energy transfer to zonal flows at the stellarator TJ-K. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Schmid, B., Ramisch, M., and Stroth, U.: Investigation of the energy transfer to zonal flows at the stellarator TJ-K. (20th Joint EU-US Transport Task Force Meeting (TTF 2015), 2015-04-28 to 2015-05-01, Salem, MA).

Schmid, B., Ramisch, M., and Stroth, U.: Zonalströmungen im Stellarator TJ-K. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Schmid, D., Pilottek, I., Friedl, R., and Fantz, U.: Zeitliche und räumliche Dynamik eines atmosphärischen Plasmoids. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Schmid, K.: Diffusion/Trapping modelling of H recycling in W under ELM like heat loads. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Schmid, K.: Time evolution of deuterium desorption from deuterium plasma-implanted tungsten and its flux density dependence. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Schmid, K., Meisl, G., and Krieger, K.: The importance of impurity migration in present and future fusion experiments. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Schmitz, O., Anderson, D. T., Bader, A., Bozhenkov, S., Effenberg, F., Evans, T. E., Feng, Y., Geiger, J., Frerichs, H., Gates, D., Harris, J. H., Hegna, C., Hoelbe, H., Ida, K.,

Kobayashi, M., Lazerson, S., Lore, J., Maurer, D., Reiter, D., Samm, U., Sunn Pedersen, T., and Suzuki, Y.: Challenges for Development of Design Models for Stellarator Divertors. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Schmitz, O., Kobayashi, M., Bader, A., Brezinsek, S., Evans, T. E., Feng, Y., Funaba, H., Goto, M., Hegna, C. C., Ida, K., Mitarai, O., Morisaki, T., Motojima, G., Narushima, Y., Nicolai, D., Tanaka, H., Yoshinuma, M., Xu, Y., TEXTOR Group, and LHD Experiment Group: Enhancement of Helium Exhaust by Resonant Magnetic Perturbations at LHD and TEXTOR-DED. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Schneider, M., Birus, D., and Fricke, M.: Commissioning of the Wendelstein 7-X Quench-Detection-System. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Schneider, P., Blank, H., Geiger, B., Mank, K., Martinov, S., Ryter, F., Weiland, M., Weller, A., and ASDEX Upgrade Team: A new compact solid-state neutral particle analyser at ASDEX Upgrade: Setup and physics modeling. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Schneider, P. A., Bustos, A., Hennequin, P., Ryter, F., Bernert, M., Cavedon, M., Dunne, M. G., Fischer, R., Görler, T., Happel, T., Igochine, V., Kurzan, B., McDermott, R., Morel, P., Willensdorfer, M., ASDEX Upgrade Team, and EUROfusion MST1 Team: Isotope effect on confinement unraveled for L-mode in dimensionless p^* scan (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Schneider, P. A., Geiger, B., Weiland, M., Akaeslompolo, S., Ryter, F., Tardini, G., and ASDEX Upgrade Team: Overview of diagnostic enhancements and physics studies of confined fast-ions in ASDEX Upgrade. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Schneider, W., Biedermann, C., Burhenn, R., Grünauer, F., Guerrero, J., Richert, T., Schuhmacher, H., and Zimbal, A.: Calibration of the neutron monitors of the Wendelstein 7-X stellarator. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Schneller, M., Lauber, P., and Briguglio, S.: Non-linear Energetic Particle Transport in the Presence of Multiple Alfvénic Waves in ITER. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Schneller, M., Lauber, P., Briguglio, S., and Wang, X.: Nonlinear Energetic Particle Transport in the Presence of Multiple Alfvénic Waves in ITER. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Schneller, M., Lauber, P., Wang, X., and Briguglio, S.: Nonlinear Energetic Particle Transport in the Presence of Multiple Alfvénic Waves in ITER. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Schrödl, N., Egger, A., Bucher, E., Gspan, C., Höschens, T., Hofer, F., and Sitte, W.: Phase decomposition of $\text{La}_2\text{NiO}_{4+\delta}$ under Cr and Sipoisoning conditions. (12th European SOFC & SOE Forum 2016 (International Conference on Solid Oxide Fuel Cell and Electrolyser), 2016-07-05 to 2016-07-08, Lucerne).

Schubert, M., Herrmann, A., Höhnle, H., Kasperek, W., Monaco, F., Plaum, B., Schütz, H., Stober, J., Vierle, T., Vorbrugg, S., Wagner, D., and ASDEX Upgrade Team: The O-2 mode electron cyclotron heating at ASDEX Upgrade – from the preparation to the experiment. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Schubert, M., Plaum, B., Vorbrugg, S., Herrmann, A., Kasperek, W., Monaco, F., Petzold, B., Schütz, H., Stober, J., Wagner, D., and ASDEX Upgrade Team: Enhancing O2-mode electron cyclotron heating capabilities at ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Schwarz-Selinger, T.: Deuterium retention in MeV ion implanted tungsten: influence of dose rate and damaging ion species. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Schwarz-Selinger, T.: Tungsten as Plasma Facing Material: Hydrogen Transport Studies and Defect Creation. (21st International Workshop on Inelastic Ion-Surface Collisions (IISC-21), 2015-10-18 to 2015-10-23, Donostia-San Sebastian).

Schwarz-Selinger, T., Manhard, A., Schmid, K., Bauer, J., Gao, L., Toussaint, U. von, Jacob, W., Zaloznik, A., and Markelj, S.: D uptake and isotope exchange in self-damaged tungsten. (2nd International Workshop on Models and Data for Plasma-Material Interaction in Fusion Devices (MoD-PMI 2016), 2016-06-22 to 2016-06-24, Loughborough).

Schwarz-Selinger, T., and Schmid, K.: Deuterium retention in MeV ion implanted tungsten: damage rate and damage

level dependence. (Workshop on “Irradiation Effects in Nuclear Materials,” 2015-09-23 to 2015-09-25, Oxford).

Schwarz-Selinger, T., Toussaint, U. von, Bauer, J., Schmid, K., and Mayer, M.: Limits of deuterium depth profiling in tungsten with the $\text{D}(\text{He}^3, \text{p})^4\text{He}$ nuclear reaction. (22nd International Conference on Ion Beam Analysis (IBA 2015), 2015-06-14 to 2015-06-19, Opatija).

Schweer, B., Borsuk, V., Durodie, F., Ongena, J., Vervier, M., Louche, F., Messiaen, A., Krivska, A., Van Schoor, M., Hartmann, D., Hollfeld, K. P., Neubauer, O., Offermanns, G., and W7-X Team: Development of an ICRH antenna system at W7-X for plasma heating and wall conditioning. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Scott, B. D.: Gyrokinetic Theory and Dynamics of the Tokamak Edge. (15th International Workshop on Plasma Edge Theory in Fusion Devices (PET15), 2015-09-09 to 2015-09-11, Nara).

Sehmer, T., Bernert, M., Koll, J., Meister, H., Reimold, F., Wischmeier, M., Fantz, U., and ASDEX Upgrade Team: Divertor radiation in the ASDEX Upgrade Tokamak. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Sehmer, T., Meister, H., Bernert, M., Koll, J., Reimold, F., Wischmeier, M., Fantz, U., and ASDEX Upgrade Team: Improvement of the Divertor Bolometer Diagnostic in the ASDEX Upgrade Tokamak. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Senichenkov, I., Kaveeva, E., Rozhansky, V., Sytova, E., Veselova, I., Voskoboinikov, S., and Coster, D.: Role of Electric Field in the Formation of Detached Regime. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Sertoli, M., Garcia-Regana, J. M., Bustos, A. de, Odstrcil, T., Vezinet, D., Hogeweij, D., Ahn, J. H., Guirlet, R., Willendorfer, M., and ASDEX Upgrade Team: Interplay between central ECRH and MHD in mitigating tungsten accumulation in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Shabbir, A., Hornung, G., Noterdaeme, J.-M., and Verdoollaeghe, G.: Physical characterization of the JET operational space regarding EMLs by means of discriminant analysis. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Shabbir, A., Hornung, G., Verdoolege, G., and JET Contributors: Discriminant analysis for characterization of edge-localized plasma instabilities. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Shabbir, A., Verdoolege, G., Hornung, G., Kardaun, O. J. W. F., Zohm, H., and JET Contributors: Analysis of the dependence between inter-ELM time intervals and energy losses. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Shabbir, A., Verdoolege, G., Hornung, G., Kardaun, O. J. W. F., Zohm, H., and JET Contributors: Analysis of the energy losses and waiting times for individual ELMs in the Joint European Torus. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Shao, L., Wolfrum, E., Birkenmeier, G., Laggner, F. M., Fischer, R., and ASDEX Upgrade Team: The effect of carbon and full tungsten wall on edge density profiles in ASDEX Upgrade. (597th Wilhelm und Else Heraeus Seminar “Stochasticity in Fusion Plasmas,” 2015-09-10 to 2015-09-12, Bad Honnef).

Shao, L. M., Wolfrum, E., Ryter, F., Birkenmeier, G., Laggner, F. M., Viezzer, E., Fischer, R., Willendorfer, M., Kurzan, B., and ASDEX Upgrade Team: On the role of the edge density profile for the L-H transition power threshold in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Sharov, I. A., Lang, P. T., Plöckl, B., Kocsis, G., Szepesi, T., Sergeev, V. Y., Arredondo, R., and ASDEX Upgrade Team: Capabilities of nitrogen admixed cryogenic deuterium pellets. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Shesterikov, I., Grulke, O., Stenzel, R., and Klinger, T.: Measurements of Plasma Properties Using Fast Sweeping Langmuir Probe in VINETA-II magnetic reconnection experiment. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Shesterikov, I., Grulke, O., Stenzel, R., and Klinger, T.: Measurements of Plasma Parameters Using Fast Sweeping Langmuir Probe in VINETA-II magnetic reconnection experiment. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Shesterikov, I., Xu, J., and Hidalgo, C.: Interplay between sheared flows and turbulent eddies at the TEXTOR tokamak.

(DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Sias, G., Aledda, R., Cannas, B., Delogu, R. S., Fanni, A., Murari, A., Pau, A., ASDEX Upgrade Team, and JET Contributors: A multivariate analysis of disruption precursors on JET and AUG. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Siccinio, M., Barbato, L., Fable, E., Lackner, K., Maviglia, F., Stegmeir, A., Wenninger, R., and Zohm, H.: Analytical models for the evaluation of thermal loads on divertor and first wall in DEMO. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Sichardt, G., Köhn, A., and Ramisch, M.: Electron cyclotron emission measurements at the stellarator TJ-K. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Sieglin, B., Eich, T., Faitsch, M., Herrmann, A., Scarabosio, A., Sun, H. J., Wolfrum, E., and ASDEX Upgrade Team: Density Dependence of SOL PowerWidth in ASDEX Upgrade L-Mode. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Sieglin, B., Faitsch, M., Herrmann, A., Eich, T., and ASDEX Upgrade Team: Development of an IR System for ASDEX Upgrade. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Sieglin, B., Martinov, S., Faitsch, M., Herrmann, A., Eich, T., and ASDEX Upgrade Team: Real Time IR Thermography at ASDEX Upgrade Current Status and Future Prospects. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Silva, C., Hillesheim, J. C., Hidalgo, C., Maggi, C., Meneses, L., Belonohy, E., Tsallas, M., and JET Contributors: Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Silva, C., Hillesheim, J. C., Hidalgo, C., Maggi, C., Meneses, L., Belonohy, E., Tsallas, M., and JET Contributors: Experimental investigation of geodesic acoustic modes on JET using Doppler backscattering. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Silva, F. da, Heuraux, S., Ribeiro, T., and Aguiam, D.: REFMULF: a 2D Fullwave FDTD Full Polarization Maxwell Code. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Silva, F. da, Ribeiro, T., Heuraux, S., and Scott, B.: Synthetic reflectometry probing of gyrofluid edge turbulence. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Silva, T. F., Rodrigues, C. L., Mayer, M., Moro, M. V., Trindade, G. F., Aguirre, F. R., Added, N., and Tabacniks, M. H.: MultiSIMNRA: a computational tool for self-consistent ion beam analysis using SIMNRA. (22nd International Conference on Ion Beam Analysis (IBA 2015), 2015-06-14 to 2015-06-19, Opatija).

Simon, P., Conway, G. D., Stroth, U., Biancalani, A., Manz, P., and ASDEX Upgrade Team: Structure and properties of geodesic acoustic mode oscillations in ASDEX Upgrade. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).

Simon, P., Conway, G. D., Stroth, U., Biancalani, A., Manz, P., and ASDEX Upgrade Team: Structure and properties of geodesic acoustic mode oscillations in ASDEX Upgrade. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Singh, M. M., Boilson, D., Hemsworth, R., Chareyre, J., Decamps, H., Geli, F., Graceffa, J., Schunke, B., Svensson, L., El Quazzani, A., Shah, D., Urbani, M., De Esch, H. P. L., Chitarin, G., Della Palma, M., Serianni, G., Marcuzzi, D., Toigo, V., Veltri, P., Zaccaria, P., Fantz, U., Heinemann, B., Kraus, W., Kashiwagi, M., Hanada, M., Tobari, H., Kuriyama, M., Antonio, M., and Bonicelli, T.: Heating Neutral Beams for ITER: Present Status. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Sinha, P., Hölbe, H., and Pedersen, T. S.: Numerical Study of the Connection Lengths for Various Magnetic Configurations in Wendelstein 7-X to Optimize the Heat Load on the Divertor. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Sinha, P., Hölbe, H., Pedersen, T. S., Bozhenkov, S., and W7-X Team: Numerical Study of the Connection Lengths for Various Magnetic Configurations in Wendelstein 7-X to Optimize the Heat Load on the Divertor. (13th Kudowa Summer School “Towards Fusion Energy,” 2016-06-13 to 2016-06-17, Kudowa-Zdroj).

Slaby, C., Könies, A., and Kleiber, R.: Non-perturbative kinetic influences due to energetic particles on toroidicity-induced Alfvén eigenmodes. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Smith, H. M., Fietz, S., Landreman, M., and Helander, P.: Calculation of the toroidal torque due to non-axisymmetric magnetic field perturbations in a tokamak with the SFINCS code. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Smith, H. M., Landreman, M., Helander, P., and Martitsch, A.: Neoclassical toroidal viscous torque due to non-axisymmetric magnetic fields in tokamaks. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Solano, E. R., Coffey, I., Drewelow, P., Buchanan, J., Carraro, L., Henderson, S., Janzer, M. A., Lawson, K., O’Mullane, M., Maslov, M., Menmuir, S., Pütterich, T., Puiatti, M. E., Valisa, M., and JET Contributors: Characterising W radiation in JET-ILW plasmas. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Solano, E. R., Vianello, N., Delabie, E., Refy, D., Zoletnik, S., Hillesheim, J., Buratti, P., Sieglin, B., Coelho, R., and JET Contributors: Magnetic Oscillations near L-H transition: experimental observations and comparisons with MHD theory. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Sommariva, C., Nardon, E., Fil, A., Hölzl, M., Huijsmans, G., and JET Contributors: Modelling of gas penetration, MHD activity and Runaway Electrons in disruptions mitigated by massive gas injection. (Theory and Simulation of Disruptions Workshop (TSDW 2016), 2016-07-20 to 2016-07-22, Princeton, NJ).

Sommariva, C., Nardon, E., Huijsmans, G. T. A., Hölzl, M., Särkimäki, K., Pautasso, G., Fil, A., and Van Vugt, D.: Modeling Runaway Electron dynamics in realistic fields from 3D non-linear MHD disruption simulations. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Sonnendrücker, E.: Computational Plasma Physics. (SS 2016. Vorlesung, Technische Universität München).

Sonnendrücker, E.: Energy conservation and noise reduction in PIC simulations of plasmas. (6th Workshop on Theory and Numerics of Kinetic Equations, 2015-06-01 to 2015-06-03, Saarbrücken).

Sonnendrücker, E.: High Performance Computing in plasma physics and magnetic fusion. (HPC Days, 2016-04-06 to 2016-04-08, Lyon).

Sonnendrücker, E.: Numerical methods for hyperbolic systems. (WS 2014/2015. Vorlesung, Technische Universität München).

Sonnendrücker, E., and Kormann, K.: Computational Plasma Physics. (SS 2015. Vorlesung/Übung, Technische Universität München).

Sonnendrücker, E., and Pinto, M. C.: Preserving the Divergence Constraint in Time Domain Simulations of the Maxwell or Vlasov-Maxwell Equations. (European Numerical Mathematics and Advanced Applications (ENUMATH 2015), 2015-09-14 to 2015-09-18, Ankara).

Sonnendrücker, E., and Possanner, S.: Exercises for Computational Plasma Physics. (SS 2016. Übung, Technische Universität München).

Sonnendrücker, E., and Ratnani, A.: Advanced Finite Element Methods. (WS 2015/2016. Vorlesung/Übung, Technische Universität München).

Sonnendrücker, E., and Ratnani, A.: Finite Element Methods for Hyperbolic Systems. (WS 2014/2015. Vorlesung/Übung, Technische Universität München).

Spring, A., Bluhm, T., Grahl, M., Grün, M., Hennig, C., Holtz, A., Krom, J., Kühner, G., Laqua, H., Lewerentz, M., Riemann, H., and Werner, A.: Establishing the Wendelstein 7-X steady state control and data acquisition system. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Staggner, L., Heidbrink, W. W., Jacobsen, A. S., Salewski, M., Geiger, B., Weiland, M., and ASDEX Upgrade Team: A comparison of reconstruction methods for inferring the fast-ion distribution function from multiple FIDA measurements. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Stange, T., Hartfuss, H.-J., Hirsch, M., Höfel, U., Laqua, H. P., Marsen, S., Moseev, D., Wolf, R. C., and W7-X Team: Mikrowellenheizung und -diagnostik: Leistungsstarke Werkzeuge zum Betrieb von Wendelstein 7-X. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Stange, T., Kasperek, W., Laqua, H. P., Erckmann, V., Marsen, S., Hollmann, F., Schneider, N., Michel, G., Noke, F., Purps, F., Schulz, T., Braune, H., and W7-X ECRH Team:

How to bring megawatt ECRH power into W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Stange, T., Laqua, H. P., Beurskens, M., Bozhenkov, S., Braune, H., Dinklage, A., Ford, O., Fuchert, G., Gellert, F., Hartfuß, H.-J., Hartmann, D., Hirsch, M., Höfel, U., Langenberg, A., Marsen, S., Marushchenko, N. B., Moseev, D., Kasperek, W., Knauer, J., Pablant, N., Pasch, E., Pedersen, T. S., Rahbarnia, K., Turkin, Y., Trimino Mora, H., Wauters, T., Wolf, R. C., and W7-X Team: First ECRH plasmas in the Wendelstein 7-X Stellarator. (28th Joint Russian-German Meeting on ECRH and Gyrotrons, 2016-06-27 to 2016-07-03, Nizhny Novgorod).

Stange, T., Laqua, H. P., Hartfuss, H.-J., Hirsch, M., Marsen, S., Preynas, M., and W7-X Team: Plasma Start-up and Wall Conditioning with ECRH in Wendelstein 7-X (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Stange, T., Laqua, H. P., Kasperek, W., Erckmann, V., Braune, H., Lechte, C., Marsen, S., and Weißgerber, M.: Commissioning and test of the quasi-optical ECRH system of Wendelstein 7-X. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Stange, T., Laqua, H. P., Wolf, R. C., Pedersen, T. S., Marsen, S., Moseev, D., Otte, M., Windisch, T., Pasch, E., Bozhenkov, S., Fuchert, G., and W7-X Team: First ECRH Plasmas in the Wendelstein 7-X Stellarator. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Stange, T., and W7-X Team: W7-X OP1.1 Limiter Plasmas – Core. (15th Coordinated Working Group Meeting, 2016-03-21 to 2016-03-23, Greifswald).

Stanja, J., Hergenhahn, U., Niemann, H., Paschkowski, N., Pedersen, T. S., Saitoh, H., Stenson, E., Hugenschmidt, C., Schweikhart, L., Danielson, J. R., and Surko, C. M.: Progress towards positron-electron pair plasma experiment. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Stanja, J., Hergenhahn, U., Niemann, H., Pedersen, T. S., Saitoh, H., Stenson, E. V., Stoneking, M. R., Hugenschmidt, C., and Piachacz, C.: Characterization of positron beams for the APEX project. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Stanja, J., Hergenhahn, U., Niemann, H., Pedersen, T. S., Saitoh, H., Stenson, E. V., Stoneking, M. R., Hugenschmidt, C., Piochacz, C., and Schweikhard, L.: First on-line positron experiments en route to pair-plasma creation. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Stechow, A. von, Grulke, O., and Klinger, T.: Current sheet dynamics during driven magnetic reconnection. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Stechow, A. von, Grulke, O., and Klinger, T.: Experimental multiple-scale investigation of guide-field reconnection dynamics. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Stechow, A. von, Grulke, O., and Klinger, T.: Fast plasma potential measurements within a reconnecting current sheet via laser-heated emissive probes. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Stechow, A. von, Grulke, O., Ji, H., Yamada, M., and Klinger, T.: Fluctuation dynamics in reconnecting current sheets. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Stegmeir, A.: The Field line map approach to plasma turbulence simulations. (16th European Fusion Theory Conference 2015 (EFTC 2015), 2015-10-05 to 2015-10-08, Lisbon).

Stegmeir, A., Coster, D., Ross, A., Maj, O., and Lackner, K.: The field line map approach for simulations of edge/SOL in divertor geometry. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Stejner, M., Nielsen, S., Jacobsen, A. S., Korsholm, S. B., Leipold, F., McDermott, R., Rasmussen, J., Salewski, M., Schubert, M., Stober, J., Wagner, D., ASDEX Upgrade Team, and EUROfusion MST1 Team: Measuring main-ion temperatures in ASDEX Upgrade using scattering of ECRH radiation. (41st International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2016), 2016-09-25 to 2016-09-30, Copenhagen).

Stenson, E. V., Hergenhahn, U., Niemann, H., Paschkowski, N., Pedersen, T. S., Saitoh, H., Stanja, J., Stoneking, M. R., Hugenschmidt, C., Piochacz, C., Vohburger, S., Schweikhard, L., Danielson, J. R., and Surko, C. M.: Advancements toward matter-antimatter pair plasmas in the laboratory. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Stenson, E. V., Hergenhahn, U., Niemann, H., Paschkowski, N., Saitoh, H., Stanja, J., Pedersen, T. S., Stoneking, M. R., Piochacz, C., Hugenschmidt, C., Schweikhard, L., Danielson, J. R., and Surko, C. M.: Toward realization of electron-positron plasmas in the lab: Project overview, positron beam experiments, and linear traps. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Stenson, E. V., Hergenhahn, U., Saitoh, H., Stanja, J., Pedersen, T. S., Stoneking, M. R., Hugenschmidt, C., Schweikhard, L., Danielson, J. R., and Surko, C. M.: Progressing toward pair plasmas: the latest developments from the APEX/PAX project. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Stenson, E. V., and Pedersen, T. S.: Tools for fusing atoms, sussing out our sun, and amassing antimatter. (Nerd Nite Berlin, 2015-05-20, Berlin).

Stenson, E., Pedersen, T. S., Saitoh, H., Hergenhahn, U., Stanja, J., Niemann, H., Paschkowski, N., Schweikhard, L., Marx, G. H., Hugenschmidt, C., Piochacz, C., Surko, C. M., Danielson, J. R., and Stoneking, M. R.: En route to matter-antimatter pair plasmas. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Stephey, L., Wurden, G. A., Biedermann, C., Harris, J., König, R., Kornejew, P., Krychowiak, M., Schmitz, O., Unterberg, E. A., and W7-X Team: Spectroscopic imaging of limiter heat and particle fluxes and of the resulting impurity sources during Wendelstein7-X startup plasmas. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Stober, J. K., Bock, A., Fable, E., Fischer, R., Angioni, C., Leuterer, F., Monaco, F., Müller, S., Münich, M., Petzold, B., Poli, E., Schubert, M., Schütz, H., Wagner, D., Zohm, H., Meier, A., Scherer, T., Strauß, D., Jelonnek, J., Thumm, M., Kasparek, W., Plaum, B., Doelman, N., Klop, W., Litvak, A., Denisov, G. G., Chirkov, A. V., Tai, E. M., Popov, L. G., Nichiporenko, V. O., Myasnikov, V. E., Soluyanova, E. A., Malygin, V., and ASDEX Upgrade Team: The ECRH System on ASDEX Upgrade – Selected Physics Experiments and System Upgrade. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Stober, J., Bock, A., Geiger, B., Monaco, F., Nielsen, S., Rapson, C., Reich, M., Schubert, M., Schütz, H., Stejner, M., Suttorp, W., and Wagner, D.: Recent EC based experiments at ASDEX Upgrade. (27th Joint Russian-German Workshop

on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Stober, J., Pütterich, T., and Zohm, H.: Einführung in die Plasmaphysik – Plasmaphysik I. (WS 2014/2015. Vorlesung/Übung, Ludwig-Maximilians-Universität Berlin).

Stober, J., Schweinzer, J., Joffrin, E., Beurskens, M., Pütterich, T., Luce, T., ASDEX Upgrade Team, and MST TF: ITER baseline experiments in AUG. (14th IOS-TG Meeting of the ITPA, 2015-04-20 to 2015-04-23, Barcelona).

Stoneking, M. R., Bozhenkov, S., Pasch, E., Pedersen, T. S., and Wolf, R. C.: Plans to Use Thomson Scattering to Resolve Centimeter-scale Fluctuations and Electron Pressure Gradients near the Last Closed Flux Surface in the W7-X Stellarator. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Stoneking, M. R., Hergenhahn, U., Hugenschmidt, C., Niemann, H., Pedersen, T. S., Piochacz, C., Saitoh, H., Stanja, J., and Stenson, E. V.: Efficient injection of positrons into a dipole magnetic field and plans for levitated dipole experiments. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Stoneking, M. R., Hergenhahn, U., Saitoh, H., Stanja, J., Stenson, E. V., Pedersen, T. S., and Hugenschmidt, C.: Toward Realization of Electron-Positron Plasma in the Lab: Initial Results on the Injection of an Intense Positron Beam into a Dipole Magnetic Field. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Storelli, A., Vermare, L., Hennequin, P., Gurcan, Ö. D., Dif-Pradalier, G., Sarazin, Y., Garbet, X., Görler, T., Singh, R., Morel, P., Grandgirard, V., Ghendrih, P., and Tore Supra Team: Comparisons of GAM characteristics and dynamics between Tore Supra experiments and gyrokinetic simulations. (Workshop on Electric Fields, Turbulence and Self-Organisation in Magnetised Plasmas (EFTSOMP 2015), 2015-06-29 to 2015-06-30, Lisbon).

Stroem, P., Petersson, P., Schwarz-Selinger, T., Sugiyama, K., Primetzhofer, D., and Rubel, M.: Sputter-induced modification of Eurofer and Fe-W model films. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Stroth, U., and Birkenmeier, G.: Plasmaphysik 1. (WS 2014/2015. Vorlesung/Übung. Technische Universität München).

Stroth, U., and Birkenmeier, G.: Plasmaphysik 1. (WS 2015/2016. Vorlesung/Übung, Technische Universität München).

Stroth, U., and Birkenmeier, G.: Plasmaphysik 2. (SS 2016. Vorlesung/Übung, Technische Universität München).

Stroth, U., Dörsch, G., and Dux, R.: Lineare und nichtlineare Wellen in einem Doppelplasma-Experiment. (SS 2016. Praktikum, Technische Universität München).

Stroth, U., Dörsch, G., and Dux, R.: Plasmainterferometrie. (WS 2015/2016. Praktikum, Technische Universität München).

Suarez, A., Casal, N., Gonzalez, J., Ingesson, L. C., Meister, H., and Reichle, R.: Line of sight distribution and integration constraints of bolometers in ITER. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Suarez Lopez, G., Ochoukov, R., Noterdaeme, J.-M., Bobkov, V., Faugel, H., Fünfgelder, H., and Zohm, H.: Experimental investigation of interactions between ICRF wave fields and SOL plasma turbulence with B-dot, Langmuir, and MHD probes. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Subba, F., Aho-Mantila, L., Ambrosino, R., Coster, D., Pericoli-Ridolfini, V., Uccello, A., and Zanino, R.: Efficiency of non-standard divertor configurations in DEMO. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Subba, F., Aho-Mantila, L., Coster, D., Maddaluno, G., Nallo, G. F., Sieglin, B., Wenninger, R., and Zanino, R.: Impact of the SOL radiation distribution onto the first wall heat load of DEMO. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Sugiyama, K., Jacob, W., Balden, M., Oberkofler, M., and Schwarz-Selinger, T.: Sputtering of Steel by Deuterium Bombardment: Comparison of EUROFER and P92. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Sugiyama, K., Roth, J., Doerner, R. P., Balden, M., Höschen, T., and Jacob, W.: Sputtering Behaviour of EUROFER Steel by Energetic Deuteron Bombardment at Various Temperatures. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Suttrop, W.: 3D Effects in Tokamaks. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Suttrop, W.: Effect of torque input and electron to ion heating on pedestal and core plasma transport for RMP and nRMP for two triangularities. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Suttrop, W.: Einführung in die Plasmaphysik. (WS 2015/2016. Vorlesung, Universität Bayreuth).

Suttrop, W., EUROfusion MST1 Team, and ASDEX Upgrade Team: Progress in understanding the plasma response to non-axisymmetric magnetic perturbations in tokamaks. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Suzuki, Y., and Geiger, J.: Impact of 3D equilibrium response on edge topology and divertor heat loads in W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Suzuki, Y., Ida, K., Kamiya, K., Yoshinuma, M., Kobayashi, M., Kawamura, G., Sakakibara, S., Watanabe, K. Y., Hudson, S., Feng, Y., Ogawa, K., Isobe, M., Seki, R., Morimoto, J., Morisaki, T., and LHD Experimental Group: Studies of 3D stochastic boundary in Large Helical Device experiment. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Sytova, E., Kaveeva, E., Rozhansky, V., Senichenkov, I., Veselova, I., Voskoboinikov, S., and Coster, D.: Impact of detached divertor on the pedestal region. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Sytova, E., Senichenkov, I., Kaveeva, E., Rozhansky, V., Veselova, I., Voskoboinikov, S., and Coster, D.: Analysis of impurity momentum balance and flows in the SOL by SOLPS-ITER modelling. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Szabolics, T., Cseh, G., Kocsis, G., Szepesi, T., Zoleznik, S., Biedermann, C., König, R., and W7-X Team: Software development for the simultaneous control of ten intelligent overview video cameras at W7-X. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Szepesi, T., Alonso, A., Biedermann, C., Cseh, G., Dinklage, A., Jakubowski, M., Kocsis, G., König, R., Otte, M., Pedersen, T. S., Zoleznik, S., and W7-X Team: Observations with the visible overview video diagnostic system during the first operational campaign of Wendelstein 7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Tal, B., Birkenmeier, G., Brix, M., Dunai, D., Gomes, R., Laggner, F. M., Petravich, G., Refy, D., Silva, C., Wolfrum, E., Zoleznik, S., ASDEX Upgrade Team, and JET Contributors: Study of scrape-off layer turbulence based on Lithium beam emission spectroscopy data. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Tala, T., McDermott, R. M., Chrystal, C., Salmi, A., Solomon, W., Angioni, C., deGrassie, J., Duval, B., Giroud, C., Grierson, B., Ferreira, J., Hillesheim, J., Mantica, P., Menmuir, S., Odstrcil, T., Pütterich, T., Ryter, F., Tardini, G., Viezzzer, E., Parra, F., Barnes, M., JET Contributors, ASDEX Upgrade Team, DIII-D Team and ITPA Transport Confinement Topical Group: Multi-Machine Tokamak Experiments to Study Parametric Dependencies of Intrinsic Torque (TC-17) with Emphasis on ρ^* . (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Tala, T., McDermott, R. M., Rice, J. E., Salmi, A., Solomon, W., Angioni, C., Giroud, C., Ferreira, J., Kaye, S., Mantica, P., Ryter, F., Tardini, G., Yoshida, M., JET-EFDA Contributors, ASDEX Upgrade Team, DIII-D Team, C-Mod Team, NSTX Team, and ITPA Transport Confinement Topical Group: Multi-Machine Experiments to Study the Parametric Dependences of Momentum Transport. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Tardini, G., Bilato, R., Fischer, R., Weiland, M., and ASDEX Upgrade Team: Comparative prediction of 2nd harmonic deuterium acceleration by ICRF in ASDEX Upgrade NBI heated discharges. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Tardini, G., Casali, L., Geiger, B., Rittich, D., Rasmussen, J., Schneider, P., Weiland, M., and ASDEX Upgrade Team: Recent physics investigations at ASDEX Upgrade using TRANSP. (TRANSP User Group Meeting, 2015-03-23 to 2015-03-24, Princeton, NJ).

Tardini, G., Fischer, R., Gagnon-Moisan, F., Weiland, M., Zimbal, A., and ASDEX Upgrade Team: Characterisation of a Compact Neutron Spectrometer and unfolded neutron emission spectra in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Telesca, G., Ivanova-Stanik, I., Zagórski, R., Brezinsek, S., Czarnecka, A., Drewelow, P., Huber, A., Wiesen, S., Wischmeier, M., and JET Contributors: High power neon seeded JET discharges: experiments and simulations. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

- Telesca, G., Ivanova-Stanik, I., Zagórski, R., Brezinsek, S., Drewelow, P., Giroud, C., Huber, A., Wischmeier, M., and JET Contributors: Core-SOL modelling of neon seeded JET discharges with the ITER-like wall. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).
- Teplukhina, A. A., Sauter, O., Felici, F., Merle, A., Kim, D., TCV Team, and ASDEX Upgrade Team: Numerical optimization of ramp-down phases for TCV and AUG plasmas. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).
- Teschke, M., Arden, N., Eixenberger, H., Rott, M., and Suttrop, W.: First Operation of an (up to) 24 Phases high Current Fast Switching Inverter System. (17th European Conference on Power Electronics and Applications (EPE'15-ECCE Europe), 2015-09-08 to 2015-09-10, Geneva).
- Teschke, M., Arden, N., Eixenberger, H., Rott, M., and Suttrop, W.: Optimizing BUSSARD, the new 16-phase inverter system of ASDEX Upgrade. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).
- Theiler, C., Harrison, J., Innocente, P., Lipschultz, B., Reimerdes, H., Tsui, C., Vianello, N., Vijvers, W. A. J., Duval, B. P., Elmore, S., Labit, B., Lunt, T., Maurizio, R., Nespoli, F., Sheikh, U., Verhaegh, K., TCV Team, and EUROfusion MST1 Team: Recent results on divertor detachment experiments in alternative configurations on TCV. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).
- Theiler, C., Lipschultz, B., Crisanti, F., Duval, B., Elmore, S., Giovannozzi, E., Harrison, J. R., Innocente, P., Labit, B., Lunt, T., Maurizio, R., Nespoli, F., Pericoli, V., Reimerdes, H., Sheikh, U., Thornton, A. J., Tsui, C., Verhaegh, K., Vijvers, W. A. J., TCV Team, and MST1 Team: Results from recent detachment experiments in alternative divertor geometries on TCV. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).
- Thomas, D. A., Brunner, K. J., Freethy, S., Huang, B. K., Shevchenko, V. F., and Vann, R. G. L.: Observations of 2D Doppler backscattering on MAST using SAMI. (12th International Reflectometry Workshop (IRW 12), 2015-05-18 to 2015-05-20, Jülich).
- Thomas, D., Brunner, K., Freethy, S., Huang, B., Shevchenko, V., and Vann, R.: Simultaneous 2D Doppler backscattering from edge turbulence. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).
- Thomas, M., Köhn, A., Vann, R., and Leddy, J.: 3D full wave modelling of microwave propagation through turbulence. (Microwaves in Plasmas and Beams 2015, 2015-12-17 to 2015-12-18, York).
- Thomsen, H., Andreeva, T., Brandt, C., Neuner, U., Rahbarnia, K., Endler, M., Geiger, J., Grahl, M., Klinger, T., Svensson, J., Werner, A., and W7-X Team: Status and prospects of the MHD diagnostics at Wendelstein 7-X stellarator. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).
- Thomsen, H., Burhenn, R., Langenberg, A., Bertschinger, G., Biel, W., Buttenschön, B., Marchuk, O., Pablant, N., Zhang, D., Grosser, K., and Pedersen, T. S.: Startup impurity transport diagnostics in Wendelstein 7-X stellarator. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).
- Throumoulopoulos, G., Kuiroukidis, A., and Tasso, H.: Vlasov tokamak equilibria with sheared toroidal flow and anisotropic pressure. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).
- Throumoulopoulos, G., Poulipoulis, G., and Konz, C.: HELENA code with incompressible parallel plasma flow. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).
- Toussaint, U. von: Bayesian Experimental Design for Plasma-Wall-Interaction Simulations: Efficient estimation of Uncertainties based on parallel Gaussian Processes. (2nd International Workshop on Models and Data for Plasma-Material Interaction in Fusion Devices (MoD-PMI 2016), 2016-06-22 to 2016-06-24, Loughborough).
- Toussaint, U. von: Bayesian inference and inverse problems. (WS 2014/2015. Vorlesung, Technische Universität Graz).
- Toussaint, U. von: Handling of Discordant Data. (36th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering (MaxEnt 2016), 2016-07-10 to 2016-07-15, Ghent).
- Toussaint, U. von: Integrated Data Analysis and Uncertainty Quantification in Fusion. (IAEA Consultancy Meeting, 2016-07-28 to 2016-07-29, Vienna).
- Toussaint, U. von: Inverse Probleme und Bayessche Wahrscheinlichkeitstheorie. (WS 2015/2016. Vorlesung/Übung, Technische Universität Graz).

Toussaint, U. von: Modern data analysis techniques for ion beam analysis. (22nd International Conference on Ion Beam Analysis (IBA 2015), 2015-06-14 to 2015-06-19, Opatija).

Toussaint, U. von, Müller, D., Gao, L., and Manhard, A.: H-induced changes of displacement threshold distributions in tungsten. (12th International Conference on Diffusion in Solids and Liquids (DSL2016), 2016-06-26 to 2016-06-30, Split).

Toussaint, U. von, and Mutzke, A.: Erosion and Surface Morphology study of iron-tungsten model system towards assessment of reduced activation ferritic martensitic steel (EUROFER) as plasma-facing material. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Toussaint, U. von, Mutzke, A., Sugiyama, K., and Schwarz-Selinger, T.: Simulation of coupled sputter-diffusion effects. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Toussaint, U. von, and Preuss, R.: Bayesian Gaussian Processes as surrogate models for complex computer codes. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Toussaint, U. von, and Preuss, R.: Estimating Continuous-time Markov Chain Transition Parameters from Discrete Time Observations. (36th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering (MaxEnt 2016), 2016-07-10 to 2016-07-15, Ghent).

Toussaint, U. von, and Preuss, R.: Gaussian-process based closed-loop experimental design of computer experiments. (SIAM Conference on Uncertainty Quantification (UQ16), 2016-04-05 to 2016-04-08, Lausanne).

Toussaint, U. von, and Preuss, R.: Handling Uncertainties in PWI. (Joint Modelling Meeting, 2016-03-07 to 2016-03-11, Lisboa).

Toussaint, U. von, and Preuss, R.: Uncertainty quantification for complex models. (Excellence Cluster Origins of the Universe Bayes Forum, 2015-04-24, Garching).

Toussaint, U. von, and Preuss, R.: Uncertainty Quantification in Ion-Solid Interaction Simulations. (Conference on Computer Simulation of Radiation Effects in Solids (COSIRES 2016), 2016-06-20 to 2016-06-24, Loughborough).

Treutterer, W., Cole, R., Graeter, A., Lueddecke, K., Neu, G., Rapson, C., Raupp, G., Zehetbauer, T., and ASDEX Upgrade

Team: Configuration-defined control algorithms with the ASDEX Upgrade DCS. (10th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research, 2015-04-20 to 2015-04-24, Ahmedabad, Gujarat).

Treutterer, W., Rapson, C., Raupp, G., Humphreys, D., Walker, M., De Tommasi, G., Cinque, M., Bremond, S., Moreau, P., and Felton, R.: Towards a preliminary design of the ITER Plasma Control System architecture. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Trimino Mora, H.: Acceleration of Bayesian Model Based Data Analysis through Software/Hardware. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Trimino Mora, H., Svensson, J., Ford, O., Werner, A., Wolf, R. C., and Timmermann, D.: Acceleration of Formal Bayesian Model Based Data Analysis. (International Symposium on Highly-Efficient Accelerators and Reconfigurable Technologies (HEART 2016), 2016-07-25 to 2016-07-27, Hong Kong).

Trimino Mora, H., Wolf, R. C., Timmermann, D., Werner, A., and Svensson, J.: Acceleration of Bayesian Model Based Data Analysis through Software/Hardware. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Tronko, N.: General theoretical framework for GK codes. (Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2015), 2015-10-26 to 2015-10-30, Garching).

Tronko, N.: Verification of gyrokinetic codes: theoretical background and applications. (Joint Varenna-Lausanne International Workshop on Theory of Fusion Plasmas, 2016-08-29 to 2016-09-02, Varenna).

Tronko, N., Görler, T., Bottino, A., and Sonnendrücker, E.: Lagrangian framework for Gyrokinetic codes: from continuous to discrete model. (2nd Geometric Algorithms and Methods for Plasma Physics Workshop (GAMPP), 2016-09-12 to 2016-09-16, Garching).

Tsumori, K., Ikeda, K., Nakano, H., Kisaki, M., Geng, S., Wada, M., Sasaki, K., Nishiyama, S., Serianni, G., Wimmer, C., Agostinetti, P., Sartori, E., Brombin, M., Nagaoka, K., Osakabe, M., Takeiri, Y., and Kaneko, O.: Negative Ion Production and Beam Extraction Processes in a Large Ion Source. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Turkin, Y., Beidler, C. D., Geiger, J., Maaßberg, H., and Marushchenko, N.: Transport modeling of ECRH scenarios in W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Turnyanskiy, M., Beurskens, M., Burckhart, A., Coda, S., Cecconello, M., Crombe, K., Komm, M., Donne, T., Eich, T., Esposito, B., Felici, F., Garcia-Munoz, M., Hakola, A., Litaudon, X., Martin, P., Mayoral, M. L., McDonald, D. C., Mlynar, J., Meyer, H., Neu, R., Piovisan, P., Reimerdes, H., Romanelli, F., Scannell, R., and Tudisco, O.: Preparation of exploitation of medium-size tokamaks under European roadmap for the realization of fusion energy. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Turnyanskiya, M., Neu, R., Albanese, R., Ambrosino, R., Bachmann, C., Brezinsek, S., Donne, T., Eich, T., Falchetto, G., Federici, G., Jachmich, S., Kalupin, D., Litaudon, X., Mayoral, M., McDonald, D., Reimerdes, H., Romanelli, F., Wenninger, R., and You, J.-H.: European roadmap and progress on the mission for solution on heat-exhaust systems. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Uljanovs, J., Groth, M., Jaervinen, A. E., Moulton, D., Brix, M., Corrigan, G., Drewelow, P., Guillemaut, C., Harting, D., Simpson, J., Huber, A., Jachmich, S., Kruezi, U., Lawson, K. D., Meigs, A. G., Sips, A. C. C., Stamp, M. F., Wiesen, S., and JET Contributors: The isotope effect on divertor conditions and neutral pumping in horizontal and corner divertor configurations in JET-ILW Ohmic plasmas. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Unterberg, B., Brezinsek, S., Dittmar, T., Gao, L., Jacob, W., Kreter, A., Linsmeier, C., Meisl, G., Möller, S., Rasinski, M., Reinhart, M., and Schwarz-Selinger, T.: Impact of seeding impurities on ITER plasma-facing materials. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Unterberg, B., Steffens, J., Kreter, A., Möller, S., Rasinski, M., and Sugiyama, K.: Investigation of preferential sputtering of a Fe/W layer in the linear plasma device PSI-2 using Glow Discharge Optical Emission Spectroscopy. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Urano, H., Hobirk, J., Maggi, C. F., Joffrin, E., and JET Contributors: Characterization of electron density based on operational parameters in JET H-mode plasmas with C and ILW. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Urano, H., Saarelma, S., Maggi, C., Leyland, M., Frasinetti, L., Giroud, C., Beurskens, M., and JET Contributors: Extended pedestal width in JET H-mode plasmas with a metallic Be/W wall. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Uytdenhouwen, I., Schwarz-Selinger, T., Coenen, J. W., and Wirtz, M.: Mechanical and microstructural changes in W due to irradiation damage. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Uytdenhouwen, I., Wirtz, M., Schwarz-Selinger, T., and Coenen, J. W.: Synergistic effect of deuterium, high heat loading and irradiation damage on the hardening of tungsten. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Vakulchyk, I., Helander, P., and Marushchenko, N. B.: The wave-mode purity in ECRH: advanced 3D ray-tracing modeling. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Vakulchyk, I., and Marushchenko, N.: Optimization of ECR wave polarization for improved heating efficiency. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Vallone, E., Di Maio, P. A., Garitta, S., You, J.-H., and Mazzzone, G.: Analysis of steady state thermal-hydraulic behaviour of the DEMO divertor cassette body cooling circuit. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Vanovac, B., Classen, I. G. J., Denk, S. S., Dunne, M., Viezzner, E., Orain, F., Luhmann Jr., N. C., and ASDEX Upgrade Team: ELM filaments on ASDEX Upgrade: ECEI observations and modelling. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Velasco, J. L., McCarthy, K. J., Panadero, N., Satake, S., López-Bruna, D., Alonso, A., Calvo, I., Dinklage, A., Estrada, T., Fontdecaba, J. M., Hernández, J., García, R., Medina, F., Ochando, M., Pastor, I., Perfilov, S., Sánchez, E., Soleto, A., Van Milligen, B. P., and Zhezera, A.: Study of neoclassical transport and zonal-flow-damping properties of non-axisymmetric configurations with pellet injection. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Verdoolaege, G., Shabbir, A., and Hornung, G.: Demonstration of the robustness of geodesic least squares regression for scaling of the LH power threshold in tokamaks. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Verdoolaege, G., Shabbir, A., and Hornung, G.: Robust scaling of the energy confinement in tokamaks. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Verhaegh, K., Duval, B. P., Lipschultz, B., Harrison, J., Labit, B., Lunt, T., Maurizio, R., Marini, C., Nespoli, F., Reimerdes, H., Sheikh, U., Theiler, C., Tsui, C., Vijvers, W., and EUROfusion MST1 Team: Spectroscopic investigations of volumetric recombination in the TCV divertor. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Vezinet, D., Igochine, V., Gude, A., Meshcheriakov, D., and ASDEX Upgrade Team: Experimental characterisation of sawtooth crash precursors on ASDEX Upgrade via Soft X-Ray tomography. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Vianello, N., Solano, E. R., Delabie, E., Hilllesheim, J., Refy, D., Buratti, P., Boom, J., Coelho, R., Figueiredo, A., Lerche, H., Meneses, L., Rimini, F., Sips, A. C. C., Artaserse, G., Belohony, E., and JET Contributors: Experimental characterization of M-mode in JET tokamak. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Vicente, J., Carralero, D., Silva, C., Manso, M. E., Guimaraes, L., Conway, G. D., and ASDEX Upgrade Team: Relationship between divertor collisionality and filament activity measured with reflectometry at ASDEX Upgrade. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Vicente, J., Conway, G. D., Meneses, L., Silva, C., Manso, M. E., ASDEX Upgrade Team, and JET Contributors: Dynamics of filaments in the vicinity of the separatrix during ELM cycles. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Viezzer, E., Cavedon, M., Fable, E., Laggner, F. M., Odstrcil, T., Angioni, C., Dunne, M. G., Dux, R., McDermott, R., Pütterich, T., Ryter, F., Wolfrum, E., and ASDEX Upgrade Team: Ion heat and momentum transport in the edge pedestal of ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Viezzer, E., Dux, R., Dunne, M., and ASDEX Upgrade Team: A new beam emission polarimetry diagnostic for measuring the magnetic field line angle at the plasma edge of ASDEX Upgrade. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Viezzer, E., Fable, E., Cavedon, M., Laggner, F. M., Angioni, C., Dunne, M., Dux, R., Burckhart, A., McDermott, R. M., Odstrcil, T., Pütterich, T., Ryter, F., Wolfrum, E., ASDEX Upgrade Team, and EUROfusion MST1 Team: Impact of ELMs on edge rotation, momentum confinement and ion heat transport in ASDEX Upgrade. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Vijvers, W. A. J., Canal, G. P., Duval, B. P., Labit, B., Lipschultz, B., Lunt, T., Nespoli, F., Reimerdes, H., Sheikh, U. A., Theiler, C., Tsui, C., Verhaegh, K. H. A., and TCV Team: Advanced divertor research on the TCV tokamak. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Vilbrandt, R., Bosch, H.-S., Kühner, G., Naujoks, D., Schacht, J., and Werner, A.: Application of the engineering standard for functional safety to the W7-X central safety system. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Viola, B., Calabro, G., Jarvinien, A. E., Maviglia, F., Wiesen, S., Wischmeier, M., and JET Contributors: EDGE2D-EIRENE simulations of the impact of flux expansion on the radiative divertor performance in JET. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Vondracek, P., Nielsen, A. H., Horacek, J., Ondac, P., Adamek, J., Müller, H. W., Seidl, J., and ASDEX Upgrade Team: Detail comparison between an interchange instability model and experimental measurements from the SOL at ASDEX upgrade. (27th Symposium on Plasma Physics and Technology, 2016-06-20 to 2016-06-23, Prague).

Vries, P. C. de, Pautasso, G., Humphreys, D., Lehnen, M., Maruyama, S., Snipes, J. A., Vergara, A., and Zabeo, L.: Requirements for Triggering the ITER Disruption Mitigation System. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Wagner, D., Hirsch, M., Kasparek, W., Leuterer, F., Losert, M., Monaco, F., Münich, M., Schütz, H., Stange, T., Stober, J., and Thumm, M.: Notch filters for ECE diagnostics at ASDEX

Upgrade and W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Wagner, D., Kasperek, W., Leuterer, F., Marcot, A., Monaco, F., Muenich, M. J., DeRijk, E., Schütz, H., Stober, J., Thumm, M., and Zeitler, A.: Sub-THz Notch Filters based on Photonic Bandgaps in Overmoded Waveguides. (40th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz 2015), 2015-08-23 to 2015-08-28, Hong Kong).

Wagner, D., Leuterer, F., Kircher, M., Monaco, F., Münich, M., Schubert, M., Stober, J., Zohm, H., Gantenbein, G., Jelonnek, J., Thumm, M., Meier, A., Scherer, T., Strauss, D., Kasperek, W., Lechte, C., Plaum, B., Zach, A., Litvak, A. G., Denisov, G. G., Chirkov, A., Popov, L. G., Nichiporenko, V. O., Myasnikov, V. E., Tai, E. M., Solyanova, E. A., Malygin, S. A., and ASDEX Upgrade Team: Extension of the Multi-Frequency ECRH System at ASDEX Upgrade. (41st International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2016), 2016-09-25 to 2016-09-30, Copenhagen).

Wagner, D., Stober, J., Leuterer, F., Monaco, F., Müller, S., Münich, M., Rapson, C., Reich, M., Schubert, M., Schütz, H., Treutterer, W., Zohm, H., Thumm, M., Scherer, T., Meier, A., Gantenbein, G., Jelonnek, J., Kasperek, W., Lechte, C., Plaum, B., Litvak, A. G., Denisov, G. G., Chirkov, A., Popov, L. G., Nichiporenko, V. O., Myasnikov, V. E., Tai, E. M., Solyanova, E. A., Malygin, S. A., and ASDEX Upgrade Team: Status and Upgrade of the ECRH System at ASDEX Upgrade. (JA-EU-US RF Heating Technology Workshop, 2015-08-31 to 2015-09-02, Ryogoku).

Wagner, F.: Characteristics of an electricity supply by intermittent sources. (Vortrag im Rahmen der Erasmus Mundus Master Courses, 2015-02-09, CEA, Cadarache).

Wagner, F.: Do we still need fusion? (Vortrag, 2015-02-10, ITER, Cadarache).

Wagner, F.: Electricity by Intermittent Sources. (79th Annual Meeting of the DPG and DPG-Frühjahrstagung (Spring Meeting) of the Condensed Matter Section (SKM), 2015-03-15 to 2015-03-20, Berlin).

Wagner, F.: Electricity by Intermittent Sources. (Energy, Science and Technology Conference 2015 (EST), 2015-05-20 to 2015-05-22, Karlsruhe).

Wagner, F.: Electricity by intermittent sources. (Panel Discussion of the Energy Group of the European Physical Society, 2015-10-24, Rome).

Wagner, F.: Erneuerbare Energien – aktuelle Entwicklungen und zukünftige Herausforderungen für Europa. (FORUM TECHNIK an der Fachhochschule Kärnten, 2015-04-24, Villach).

Wagner, F.: EU-wide studies on the integration of renewable energies in the electricity grid. (Conference of the Italian Physical Society, 2015-10-23, Rome).

Wagner, F.: EU-wide studies on the integration of renewable energies in the electricity grid. (International Energy Studies Workshop, 2015-09-23 to 2015-09-24, Rome).

Wagner, F.: Features of an electricity supply by intermittent sources – the German case. (Public Hearing on the Subject : “Grid Integration of Renewable Energy Sources” held in the French National Assembly, 2016-05-26, Paris).

Wagner, F.: The German “Energiewende”: Euphoria versus Technology. (2nd International Conference on History of Physics, 2016-09-03 to 2016-09-07, Pöllau).

Wagner, F.: On the German “Energiewende” and the major features of its future electricity system. (VERA-Seminar der Universität Wien, 2015-04-23, Wien).

Wagner, F.: Integration of intermittent electricity sources. (Seminar, Forschungszentrum Jülich, 2016-06-24, Jülich).

Wagner, F.: Nuclear Energy – the physics background. (3rd Course of the Joint EPS-SIF International School on Energy jointly organized with the 69th Course of the International School of Solid State Physics: “Materials for Energy and Sustainability V,” 2016-07-13 to 2016-07-19, Erice).

Wagner, F.: The use of intermittent sources for electricity production in Germany, Sweden, Europe. (3rd Science and Energy Seminar at Ecole de Physique des Houches: “Energy Scenarios: Which Research in Physics?,” 2016-02-07 to 2016-02-11, Les Houches).

Wagner, F.: Überlegungen zu einer EU-weiten Versorgung mit intermittierenden Stromquellen. (Frühjahrstagung des Arbeitskreises Energie der DPG, 2015-04-16 to 2015-04-17, Bad Honnef).

Wagner, F.: Was beschert uns die Energiewende? (Vortrag, 2015-03-19, Ernst-Moritz-Arndt-Universität Greifswald).

Wagner, F.: Wendelstein 7-X (W7-X) stellarator. (Atomic Energy Organisation Iran (AEOI), 2016-02-28, Teheran).

Wagner, F.: Zukunftsenergie Fusion. (Lions Club München, 2016-09-27, München).

Wagner, F., and Heitmann, F.: Energiewende in Deutschland: Hürden und deren Auswirkungen bei der Umsetzung. Herausforderung Stromversorgung – Ein Resümee. (Alfried Krupp Wissenschaftskolleg Greifswald: Öffentliche Vortragsreihe “Technik. Umwelt. Klima”. Schwerpunkt: “Deutschland unter Strom – Herausforderung Elektroenergie,” 2015-02-03, Greifswald).

Walker, M. L., Humphreys, D. A., Sammuli, B., Welander, A. S., Winter, A., Snipes, J., Vries, P. de, Ambrosino, G., Tommasi, G. D., Mattei, M., Neu, G., Treutterer, W., Raupp, G., and Rapson, C.: Development Environment for Tokamak Plasma Control. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Wang, X., Briguglio, S., Fogaccia, G., Lauber, P., Schneller, M., Vlad, G., and Zonca, F.: Structure of wave-particle interactions in nonlinear beta induced Alfvén eigenmode dynamics. (7th IAEA Technical Meeting on Theory of Plasma Instabilities, 2015-03-04 to 2015-03-06, Frascati).

Wang, X., Briguglio, S., Lauber, P., Bierwage, A., and Zonca, F.: Structure of wave-particle interactions in nonlinear Alfvénic fluctuation dynamics. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Wang, Z., Ehrke, G., Mendelevitch, B., Boscaro, J., and Stadler, R.: Structural analysis of the W7-X cryopump during the superconducting coil fast discharge event. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Warmer, F.: Past, Present and Future of Helias Power Plant Studies. (Talk at the National Institute for Fusion Science, 2015-01-19, Toki).

Warmer, F., Beidler, C. D., Bykov, V., Fischer, U., Häußler, A., Schauer, F., and Wolf, R. C.: Progress on Stellarator Reactor Studies. (German DEMO Working Group Meeting, 2015-04-28 to 2015-04-29, Jülich).

Warmer, F., Beidler, C. D., Dinklage, A., and Wolf, R. C.: Options for an Intermediate-Step burning-plasma Stellarator. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Warmer, F., Beidler, C. D., Dinklage, A., Feng, Y., Geiger, J., Kemp, R., Knight, P., Schauer, F., Torrisi, S., Ward, D., and Wolf, R. C.: Systems Code Analysis of HELIAS Power Plants. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Warmer, F., Beidler, C. D., Dinklage, A., Feng, Y., Geiger, J., Kemp, R., Knight, P., Schauer, F., Turkin, Y., Ward, D., Wolf, R. C., and Xanthopoulos, P.: Progress on HELIAS Systems Studies. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Warmer, F., Beidler, C. D., Dinklage, A., Wolf, R. C., and W7-X Team: The advanced stellarator concept beyond W7-X: motivation and options for a burning plasma stellarator. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Wauters, T., Stange, T., Laqua, H. P., Marsen, S., Moseev, D., Volzke, O., and Dinklage, A.: Wall Conditioning by ECRH and GDC at the Wendelstein 7-X Stellarator. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Weber, H., Maj, O., and Poli, E.: Numerical Solution of the Wave Kinetic Equation in Tokamak Plasmas. (12th International Conference on Mathematical and Numerical Aspects of Wave Propagation (WAVES 2015), 2015-07-20 to 2015-07-24, Karlsruhe).

Wegener, T., Klein, F., Litnovsky, A., Rasinski, M., Brinkmann, J., Koch, F., and Linsmeier, C.: Development and analyses of self-passivating tungsten alloys for DEMO operational and accidental conditions. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Wegener, T., Litnovsky, A., Brinkmann, J., Koch, F., and Linsmeier, C.: Development of Smart Self-Passivating Tungsten Alloys as Passive Safety Measure for Future Fusion Reactors. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Weiland, M., Geiger, B., Bilato, R., Jacobsen, A., Salewski, M., Schneider, P. A., Tardini, G., and ASDEX Upgrade Team: Influence of ion cyclotron heating and MHD instabilities on the fast-ion distribution in ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Weiland, M., Geiger, B., Bilato, R., Schneider, P. A., Tardini, G., and ASDEX Upgrade Team: Further acceleration of beam ions by 2nd harmonic ion cyclotron heating in ASDEX Upgrade. (14th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems, 2015-09-01 to 2015-09-04, Vienna).

Weiland, M., Geiger, B., Bilato, R., Schneider, P., Tardini, G., Lauber, P., Ryter, F., Schneller, M., and ASDEX Upgrade

Team: Influence of Alfvén eigenmodes and ion cyclotron heating on the fast-ion distribution in the ASDEX Upgrade tokamak. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Weir, G. M., Hirsch, M., Windisch, T., Marushchenko, N. B., Hartfuss, H. J., Höfel, U., Tsuchiya, H., Grulke, O., and W7-X Team: Electron temperature fluctuation measurements in W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Wenninger, R.: Exhaust in DEMO. (Workshop on Divertor Detachment Control “Taming the Flame,” 2016-09-19 to 2016-09-23, Leiden).

Wenninger, R.: Power and particle exhaust in DEMO. (Kudowa Summerschool, 2016-06-13, Kudowa).

Wenninger, R., Albanese, R., Ambrosino, R., Arbeiter, F., Aubert, J., Bachmann, C., Barbato, L., Barrett, T., Biel, W., Boccaccini, L. V., Carralero, D., Coster, D., Eich, T., Federici, G., Firdauss, M., Kovari, M., Lowry, C., Maddaluno, G., Maviglia, F., Siccinio, M., Sieglin, B., Snicker, A., Subba, F., and Varje, J.: The DEMO Wall Load Challenge. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Wenninger, R., Arbeiter, F., Aubert, J., Aho-Mantila, L., Albanese, R., Eich, T., Fable, E., Federici, G., Giruzzi, G., Kemp, R., Maviglia, F., Sieglin, B., Ward, D., Wischmeier, M., and Zohm, H.: DEMO exhaust challenges beyond ITER. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Wenninger, R., Federici, G., PPPT PMU Team, PPPT Project Leaders, and WPPMI Physics Contributors: Conceptual Design Development for a Demonstration Fusion Power Reactor. (Zakopane Conference on Nuclear Physics, 2016-08-28 to 2016-09-04, Zakopane).

Wenzel, U., Feng, Y., König, R., and Pedersen, T. S.: On the neutral behavior under detachment conditions in W7-AS and W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Wenzel, U., Feng, Y., König, R., Pedersen, T. S., Pilopp, D., Marquardt, M., and Scarabosio, A.: On the optimum neutral pressure in the island divertors of the W7-AS and W7-X stellarators. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Werner, A., Schacht, J., Wölk, A., Pingel, S., Kühner, G., Naujoks, D., Bosch, H.-S., and Vilbrandt, R.: Development and Commissioning of the Wendelstein 7-X Safety Control System. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Widdowson, A., Alves, E., Baron-Wiechec, A., Barradas, N. P., Beal, J., Catarino, N., Coad, J. P., Heinola, K., Likonen, J., Koivuranta, S., Krat, S., Matthews, G. F., Mayer, M., Petersson, P., Rubel, M., and JET Contributors: Overview of fuel retention in the JET ITER-like Wall. (1st International Conference on Tritium Science and Technology (TRITIUM 2016), 2016-04-17 to 2016-04-22, Charleston, SC).

Widdowson, A., Alves, E., Baron-Wiechec, A., Barradas, N. P., Beal, J., Catarino, N., Coad, J. P., Heinola, K., Likonen, J., Koivuranta, S., Krat, S., Matthews, G. F., Mayer, M., Petersson, P., Rubel, M., and JET Contributors: Overview of the JET ITER-like Wall Divertor. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Widdowson, A., Alves, E., Baron-Wiechec, A., Barradas, N. P., Beal, J., Corregidor, V., Catarino, N., Coad, J. P., Heinola, K., Likonen, J., Koivuranta, S., Krat, S., Mayer, M., Petersson, P., Rubel, M., and Contributors, J.: Material migration and fuel inventory in JET ITER-like wall from surface analysis techniques. (2nd International Workshop on Models and Data for Plasma-Material Interaction in Fusion Devices (MoD-PMI 2016), 2016-06-22 to 2016-06-24, Loughborough).

Wielunsko, B., Bauer, J., Mayer, M., and Schwarz-Selinger, T.: Experimental determination of cross section data for the $D(^3He,p)^4He$ nuclear reaction from 0.25 to 6 MeV. (22nd International Conference on Ion Beam Analysis (IBA 2015), 2015-06-14 to 2015-06-19, Opatija).

Wielunsko, B., Mayer, M., and Schwarz-Selinger, T.: Optimized deuterium depth profiling by nuclear reaction analysis up to large depths. (13th International Workshop on Hydrogen Isotopes in Fusion Reactor Materials, 2016-06-06 to 2016-06-08, Milan).

Wiesen, S., Eich, T., Bernert, M., Brezinsek, S., Giroud, C., Joffrin, E., Kallenbach, A., Lowry, C., Pitts, R. A., Reimold, F., Wischmeier, M., JET Contributors, ASDEX Upgrade Team, and EUROfusion MST1 Team: Physics basis for similarity experiments on power exhaust between JET and ASDEX Upgrade with tungsten divertors. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Wiesen, S., Groth, M., Brezinsek, S., Wischmeier, M., and JET Contributors: Modelling of plasma-edge and plasma-wall

interaction physics at JET with the metallic first wall. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Wiesen, S., Groth, M., Wischmeier, M., Brezinsek, S., JET Contributors, EUROfusion MST1 Team, ASDEX Upgrade Team, Alcator C-Mod Team, and EAST Team: Plasma-edge and plasma-wall interaction modelling: lessons learned from metallic devices. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Willensdorfer, M., Cavedon, M., Classen, I. G. J., Dunne, M., Fietz, S., Fischer, R., Fuchs, C., Kirk, A., Laggner, F. M., Medvedeva, A., Suttrop, W., Wolfum, E., Luhmann Jr., N. C., and ASDEX Upgrade Team: Kinetic profiles during MP-field induced ELM mitigation at low ny^* . (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Willensdorfer, M., Suttrop, W., Strumberger, E., Denk, S., Vanovac, B., Classen, I. G. J., Dunne, M., Fietz, S., Fischer, R., Fuchs, C., Kirk, A., Laggner, F. M., Odstrcil, T., Luhmann Jr., N. C., EUROfusion MST1 Team, and ASDEX Upgrade Team: 3D Effects and plasma response measurements of non-axisymmetric magnetic perturbations on ASDEX Upgrade via ECE. (15th International Workshop on H-Mode and Transport Barrier Physics, 2015-10-19 to 2015-10-21, Garching).

Wilson, D., Keenan, T., Carvalho, I. S., Naish, J., Price, D., Plummer, D., Camp, P., Hamlyn-Harris, C., Banks, J., Ulyatt, D., Stables, G., Gowland, R., Flower, P., Warren, R., Allinson, M., Jones, G., Belonohy, E., Felton, R., Sips, A., and Knipe, S.: Tritium introduction module design for the JET tokamak. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Wimmer, C., Fantz, U., and NNBI Team: Einfluss der Plasmagittervorspannung auf die erweiterte Randschicht in HF-Quellen negativer Wasserstoffionen. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Wimmer, C., Schiesko, L., Fantz, U., and NNBI Team: Investigation of the Boundary Layer during the Transition from Volume to Surface Dominated H^- Production at the BATMAN Test Facility. (16th International Conference on Ion Sources (ICIS 2015), 2015-08-23 to 2015-08-28, New York, NY).

Wimmer, C., Schiesko, L., Jovovic, J., Fantz, U., and NNBI Team: Investigation of plasma parameters at BATMAN for variation of the Cs evaporation asymmetry and comparing

two driver geometries. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Wimmer, C., Schiesko, L., Mochalskyy, S., Fantz, U., and NNBI Team: Übergang von volumen- zu oberflächendominierter H^- -Produktion in großflächigen Quellen negativer Wasserstoffionen. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Windisch, T., Estrada, T., Hirsch, M., Kasperek, W., Krämer-Flecken, A., Lechte, C., Wolf, S., Xanthopoulos, P., and Klinger, T.: Reflectometry fluctuation diagnostics at Wendelstein 7-X. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Wischmeier, M.: A review on the current status of power and particle exhaust physics: modeling, experiment and open issues. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Wischmeier, M.: Grundlagen der Plasma-Material-Wechselwirkung. (WS 2015/2016. Vorlesung, Universität Augsburg).

Wischmeier, M., Huber, A., Lowry, C., Maggi, C., Reinke, M., and JET Contributors: Maximizing power dissipation by impurity seeding on JET with metal plasma facing. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Wischmeier, M., Lowry, C. G., Calabro, G., Bernert, M., Huber, A., Reinke, M. L., Guillemaut, C., Aho-Mantila, L., Brezinsek, S., Drewelow, P., Glöggler, S., Maggi, C. F., Meigs, A., Sergienko, G., Nave, M. F. F., Sips, G., Stamp, M., Wiesen, S., and JET Contributors: Experimental characterization of the completely detached H-mode operation in JET with metal plasma facing components. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Wischmeier, M., Nakano, T., Giruzzi, G., Kamada, Y., Neu, R., Sakurai, S., Yoshida, M., and JT-SA Team: Contribution of JT-60SA to power exhaust studies in view of ITER and DEMO. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

Wolf, R. C.: Beobachtungsmethoden in der Astrophysik. (WS 2014/2015. Vorlesung, Technische Universität Berlin).

Wolf, R. C.: Controlled thermonuclear fusion – from the stars to the laboratory. (WS 2015/2016. Vorlesung, Technische Universität Berlin).

Wolf, R. C.: Wendelstein 7-X. (9th Karlsruhe International School on Fusion Technologies, 2015-08-31 to 2016-09-11, Karlsruhe).

Wolf, R. C., Beidler, C. D., Dinklage, A., Helander, P., Laqua, H. P., Schauer, F., Pedersen, T. S., Warmer, F., and W7-X Team. Wendelstein 7-X Programme – Demonstration of a Stellarator Option for Fusion Energy. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Wolf, R. C., Dinklage, A., Ford, O., Howard, J., Reich, M., and Reimer, R.: Motional Stark Effect measurements of the local magnetic field in high temperature fusion plasmas. (1st EPS Conference on Plasma Diagnostics (ECPD), 2015-04-14 to 2015-04-17, Frascati).

Wolf, R. C., Warmer, F., Beidler, C. D., Bykov, V., Fischer, U., Häußler, A., and Schauer, F.: From W7-X to HELIAS: Strategy and Progress towards a Stellarator Power Plant. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Wolf, R. C., and W7-X Team: The Wendelstein 7-X stellarator – construction, commissioning and first experimental experience. (27th Symposium on Plasma Physics and Technology, 2016-06-20 to 2016-06-23, Prague).

Wolf, R. C., and W7-X Team: Wendelstein 7-X, ein Konzept für ein stationäres Fusionsplasma. (79th Annual Meeting of the DPG and DPG-Frühjahrstagung (Spring Meeting) of the Condensed Matter Section (SKM), 2015-03-15 to 2015-03-20, Berlin).

Wolf, S., Kasparek, W., Plaum, B., Conway, G., Happel, T., Friesen, J., Hirsch, M., and Windisch, T.: Frequency-steered Array Antennas for Doppler Reflectometry in AUG and W7-X. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Wolf, S., Lechte, C., Kasparek, W., Hennequin, P., Conway, G., Happel, T., and ASDEX Upgrade Team: A phased array antenna for Doppler reflectometry in ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Wolfrum, E., Beurskens, M., Dunne, M. G., Frassinetti, L., Gao, X., Giroud, C., Hughes, J., Lunt, T., Maingi, R., Osborne, T., Reinke, M., Urano, H., ASDEX Upgrade Team, and MST1 Team: Impact of wall materials and seeding gases on the pedestal and on core plasma performance. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Wolfrum, E., Faitsch, M., Fuchert, G., Barrera-Orte, L., Bernert, M., Birkenmeier, G., Eich, T., Gao, Y., Kurzan, B., Laggner, F. M., Müller, H. W., Potzel, S., Rack, M., Sieglin, B., Sun, H. J., Suttrop, W., Willensdorfer, M., and ASDEX Upgrade Team: Effect of magnetic perturbations on pedestal, SOL and divertor in high collisionality plasmas at ASDEX Upgrade. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Wolfrum, E., Lunt, T., Reimold, F., and ASDEX Upgrade Team: Influence of the first wall material on particle fuelling. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Wolfrum, E., and Willensdorfer, M.: Physikalische Grundlagen des Kernfusionsreaktors. (SS 2015. Vorlesung, Ludwig-Maximilians-Universität München).

Wu, J., Hong, S.-H., Gao, L., and Luo, G.-N.: Erosion and deuterium retention in tungsten exposed to KSTAR plasmas. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Wunderlich, D., and Fantz, U.: Evaluation of ro-vibrationally resolved Reaction Probabilities and their Application in Population Models for H₂ and D₂. (3rd Research Coordination Meeting on Atomic and Molecular Data for State-Resolved Modelling of Hydrogen and Helium and their Isotopes in Fusion Plasma, 2016-03-14 to 2016-03-16, Vienna).

Wunderlich, D., Fantz, U., Heinemann, B., Kraus, W., Riedl, R., and NNBI Team: Long Pulse, High Power Operation of the ELISE Test Facility. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Wunderlich, D., Fantz, U., and NNBI Team: Emission of photoelectrons and their impact on the plasma sheath in hydrogen plasmas. (32nd International Conference on Phenomena of Ionized Gases (ICPIG 2015), 2015-07-26 to 2015-07-31, Iasi).

Wurden, G. A., Biedermann, C., Jakubowski, M. W., and Bozhenkov, S. A.: Visible/IR Observations of the Poloidal Limiter in W7-X. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

Wurden, G. A., Dunn, J., Biedermann, C., Jakubowski, M., Baldzuhn, J., König, R., Rodatos, A., Stephey, L., and Bozhenkov, S.: Visible/IR Observations of the Poloidal Limiter in W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Wurden, G. A., Stephey, L. A., Biedermann, C., Jakubowski, M. W., Dunn, J. P., Gamradt, M., and W7-X Team: A High Resolution IR/Visible Imaging System for the W7-X Limiter. (21st Topical Conference on High Temperature Plasma Diagnostics (HTPD 2016), 2016-06-05 to 2016-06-09, Madison, WI).

Xiang, L. Y., Wischmeier, M., Coster, D., Bernert, M., Guo, H. Y., Luo, G. N., Reimold, F., Potzel, S., EAST Team, and ASDEX Upgrade Team: Modeling of Argon Seeding in EAST and ASDEX Upgrade with SOLPS5.0. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Yang, Q., Song, Y., Wang, Y., Qin, C., Yuan, S., Zhao, Y., and Braun, F.: Engineering Design and Fabrication of the New-Type Antenna for EAST. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Yang, X., Petrov, Y., Köhn, A., Ceccherini, F., and Galeotti, L.: Simulations of Electron Bernstein Wave Heating in Field-Reversed Configuration Plasmas. (57th Annual Meeting of the APS Division of Plasma Physics, 2015-11-16 to 2015-11-20, Savannah, GA).

You, J. H., Mazzone, G., Visca, E., Bachmann, C., Brolatti, G., Barrett, T., Cocilovo, V., Crescenzi, F., Domalapally, P. K., Dongiovanni, D., Entler, S., Federici, G., Frosi, P., Fursdon, M., Greuner, H., Hancock, D., McIntosh, S., Müller, A. V., Porfiri, M. T., Ramogida, G., Reiser, J., Richou, M., Rieth, M., Roccella, S., Rydz, A., Villari, R., and Widak, V.: Conceptual Design Studies for the European DEMO Divertor: First Results. (12th International Symposium on Fusion Nuclear Technology (ISFNT-12), 2015-09-14 to 2015-09-18, Jeju Island, Korea).

You, J.-H.: Crystal Defects: Physical Effects and Mechanics. (WS 2015/2016. Vorlesung, Universität Ulm).

You, J.-H.: Progress in the initial design activities for the European DEMO divertor. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

You, J. H., Mazzone, G., Visca, E., Bachmann, C., and EUROfusion WPDIV Team: Critical issues & challenges in the engineering of DEMO divertor target. (1st IAEA Technical Meeting on Divertor Concepts, 2015-09-29 to 2015-10-02, Vienna).

You, J.-H., Visca, E., Bachmann, C., Barrett, T., Crescenzi, F., Federici, G., Fursdon, M., Greuner, H., Hancock, D., McIntosh, S., Müller, A. von, Reiser, J., Richou, M., Rieth, M.,

and Widak, V.: European DEMO divertor target: Operational requirements and material-design interface. (17th International Conference on Fusion Reactor Materials (ICFRM-17), 2015-10-11 to 2015-10-16, Aachen).

Yu, Q., Günter, S., and Lackner, K.: Numerical study on triggering of neoclassical tearing modes by sawteeth. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Yu, Q., Günter, S., and Lackner, K.: Study on sawtooth collapses using two-fluid equations. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Yuan, Y., Wang, P. A., Greuner, H., Böswirth, B., Qu, S. L., Long, C., Luo, G.-N., Lu, G.-H., and Liu, W.: D retention in molten W and W-La₂O₃ induced by high heat flux. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Zach, A., Kasperek, W., Plaum, B., Lechte, C., Stober, J., Monaco, F., Schütz, H., Idei, H., and Hirth, T.: Towards in-situ real-time monitoring of spurious modes in HE11 transmission lines using multi-hole couplers in miter bends. (27th Joint Russian-German Workshop on ECRH and Gyrotrons, 2015-06-29 to 2015-07-04, Greifswald).

Zach, A., Plaum, B., Kasperek, W., Lechte, C., Zeitler, A., Roth, B., Stober, J., Wagner, D., Monaco, F., Schütz, H., Laqua, H. P., Stange, T., Noke, F., Purps, F., Hollmann, F., and Idei, H.: New Developments for EC Heating Diagnostics. (19th Joint Workshop on Electron Cyclotron Emission (ECE) and Electron Cyclotron Resonance Heating (ECRH) (EC-19), 2016-04-04 to 2016-04-07, Gandhinagar Gujarat).

Zach, W. A., Kasperek, W., Lechte, C., Plaum, B., Stober, J., Monaco, F., Schütz, H., Idei, H., and Hirth, T.: In-situ real-time monitoring of spurious modes in high power millimeter wave transmission lines using multi-hole couplers in miter bends. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Zacks, J., Turner, I., Farley, T., Wunderlich, D., Fantz, U., and McAdams, R.: Characterisation of the SNIF Ion Source. (5th International Symposium on Negative Ions, Beams and Sources (NIBS 16), 2016-09-12 to 2016-09-16, Oxford).

Zagorski, R., Pericoli, V., Reimerdes, H., Aho-Mantila, L., Ambrosino, R., Bufferand, H., Calabro, G., Ciraolo, G., Coster, D., Fernandes, H., Harrison, J., Lackner, K., Loureiro, J., Lunt, T., Mazzitelli, G., McIntosh, S., Militello, F., Morgan, T.,

Pelka, G., Philipps, V., Subba, F., and Viola, B.: Evaluation of the power and particle exhaust performance of various alternative divertor concepts for DEMO. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Zaitsev, F. S., Coelho, R., Matejcik, S., McCarthy, P., Suchkov, E. P., and ASDEX Upgrade Team: Evaluation of epsilon-net calculated equilibrium reconstruction error bars in the EUROfusion WP-CD platform. (1st IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis, 2015-06-01 to 2015-06-03, Nice).

Zajac, J., Stange, T., Laqua, H. P., Preinhaelter, J., and Urban, J.: Radiometry measurements on stellarator WEGA. (27th Symposium on Plasma Physics and Technology, 2016-06-20 to 2016-06-23, Prague).

Zaloznik, A., Markelj, S., Schwarz-Selinger, T., Ciupinski, L., Grzonka, J., Vavpetic, P., and Pelicon, P.: The influence of the annealing temperature on deuterium retention in self-damaged tungsten. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Zammuto, I., Giannone, L., Herrmann, A., Kallenbach, A., Vorbrugg, S., and ASDEX Upgrade Team: Implementation of ferritic steel as in vessel wall: Lessons learnt and follow up. (29th Symposium on Fusion Technology (SOFT 2016), 2016-09-05 to 2016-09-09, Prague).

Zarzoso, D., Hornsby, W. A., Casson, F. J., Poli, E., and Peeters, A. G.: Impact of rotating magnetic islands on density flattening and turbulent transport. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Zarzoso, D., Hornsby, W. A., Casson, F. J., Poli, E., Peeters, A. G., and Nasr, S.: Kinetic analysis of the interaction between rotating magnetic islands, turbulence and particles. (18th International Congress on Plasma Physics (ICPP 2016), 2016-06-27 to 2016-07-01, Kaohsiung).

Zhang, D., Beidler, C. D., Dux, R., Turkin, Y., Burhenn, R., Maaßberg, H., and Thomsen, H.: Evaluation of neoclassical impurity transport coefficients at W7-X. (20th International Stellarator-Heliotron Workshop (ISHW), 2015-10-05 to 2015-10-09, Greifswald).

Zhang, D., Burhenn, R., Buttenschön, B., Alonso, A., Bozhenkov, S., Feng, Y., Giannone, L., Grulke, O., Hirsch, M., Knauer, J., König, R., Langenberg, A., Laqua, H. P., Laube, R., Marsen, S., Maaßberg, H., Pasch, E., Rahbarnia, K., Schröder, T., Stange, T., Thomsen, H., and W7-X Team: Investigation of

the Radiative Power Loss in the Limiter Plasmas of W7-X. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Zhang, H., Titus, P., and Fellinger, J.: Thermal Radiation Analysis to Calculate the Temperature and Heat Load of Wendelstein 7-X Test Divertor Unit, Scraper and Other Components. (26th IEEE Symposium on Fusion Engineering (SOFE 2015), 2015-05-31 to 2015-06-04, Austin, TX).

Zhang, W., Coster, D., Noterdaeme, J.-M., Lunt, T., Bobkov, V., and Feng, Y.: EMC3-Eirene simulations of gas puff effects on edge density and ICRF coupling in ASDEX Upgrade. (DPG-Frühjahrstagung 2015 der Fachverbände Kurzzeitphysik und Plasmaphysik, 2015-03-02 to 2015-03-05, Bochum).

Zhang, W., Feng, Y., Lunt, T., Noterdaeme, J.-M., Jacquot, J., Colas, L., Coster, D., Bilato, R., Bobkov, V., Ochoukov, R., and ASDEX Upgrade Team: ICRF induced edge plasma convection in ASDEX Upgrade. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Zhang, W., Jacquot, J., Feng, Y., Noterdaeme, J.-M., Lunt, T., Coster, D., Van Eester, D., Bobkov, V., Ochoukov, R., Colas, L., Křivská, A., and ASDEX Upgrade Team: Edge ICRF fields induced drifts in ASDEX Upgrade. (597th Wilhelm und Else Heraeus Seminar "Stochasticity in Fusion Plasmas," 2015-09-10 to 2015-09-12, Bad Honnef).

Zhang, W., Lunt, T., Bobkov, V., Noterdaeme, J.-M., Coster, D., Jacquet, P., Brida, D., Feng, Y., and ASDEX Upgrade Team: Simulations of gas puff effects on edge density and ICRF coupling in ASDEX Upgrade using EMC3-Eirene. (21st Topical Conference on Radiofrequency Power in Plasmas (RFPPC 2015), 2015-04-27 to 2015-04-29, Lake Arrowhead, CA).

Zhao, M., Chankin, A. V., and Coster, D. P.: Kinetic simulations of electron heat flux in the scrape-off layer. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Zibrov, M., Balden, M., Bystrov, K., Morgan, T., and Mayer, M.: Deuterium accumulation in tungsten at high fluences. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Zibrov, M., Balden, M., Bystrov, K., Morgan, T. W., and Mayer, M.: Deuterium trapping and surface modification of polycrystalline tungsten exposed to high-flux plasmas at

high fluences. (22nd International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 22), 2016-05-30 to 2016-06-03, Rome).

Zibrov, M., Efimov, V., Ryabtsev, S., Gasparyan, Y., Mayer, M., and Schwarz-Selinger, T.: Deuterium interaction with vacancies and vacancy clusters in tungsten. (13th International Workshop on Hydrogen Isotopes in Fusion Reactor Materials, 2016-06-06 to 2016-06-08, Milan).

Zibrov, M., Gasparyan, Y., Ryabtsev, S., Shubina, A., and Pisarev, A.: Deuterium thermal desorption from point defects in tungsten. (15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC-15), 2015-05-18 to 2015-05-22, Aix-en-Provence).

Zibrov, M., Gasparyan, Y., Shubina, A., and Pisarev, A.: Determination of hydrogen binding energies with defects in metals from thermal desorption measurements with different heating rates. (22nd International Conference on Ion-Surface Interactions (ISI-2015), 2015-08-20 to 2015-08-24, Moscow).

Zielke, D., Briefi, S., and Fantz, U.: Bestimmung der Ionenzusammensetzung in einem Niederdruck-Niedertemperatur H₂-Plasma. (DPG-Frühjahrstagung der Sektion Atome, Moleküle, Quantenoptik und Plasmen (SAMOP), 2016-02-29 to 2016-03-04, Hannover).

Zocco, A., Helander, P., and Connor, J. W.: Magnetic compressibility and ion temperature gradient driven microinstabilities in magnetically confined plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Zocco, A., Plunk, G. G., Xanthopoulos, P., and Helander, P.: Geometric stabilisation of the electrostatic ion-temperature-gradient driven instability. (16th ITPA Transport and Confinement Topical Group Meeting (ITPA T&C Meeting), 2016-03-16 to 2016-03-18, Ahmedabad).

Zohm, H.: Kernfusion – die Energiequelle der Sterne auf die Erde holen. (Physikkolloquium, 2016-05-24, Universität Leipzig).

Zohm, H.: Nonlinear States of MHD Instabilities and their Impact on Next Step Magnetic Fusion Devices. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Zohm, H.: Das Sonnenfeuer auf die Erde holen. Wo steht die Fusionsforschung? (Max Planck Forum, 2016-05-31, Max-Planck-Haus am Hofgarten, München).

Zohm, H.: Das Sonnenfeuer auf die Erde holen – Wo steht die Fusionsforschung? (Veranstaltungsreihe “20 Jahre – 20 Vorträge” der Helmholtz-Gemeinschaft, 2015-11-25, Max-Delbrück-Centrum für Molekulare Medizin, Berlin).

Zohm, H., Biel, W., Fable, E., Kemp, R., Träuble, F., and Wenninger, R.: Where to locate DEMO in a one-step-to-an-FPP strategy. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Zohm, H., Stober, J., and Pütterich, T.: Plasmaphysik I. (WS 2015/2016. Vorlesung/Übung, Ludwig-Maximilians-Universität München).

Zohm, H., Stober, J., and Pütterich, T.: Plasmaphysik II. (SS 2015. Vorlesung/Übung, Ludwig-Maximilians-Universität München).

Zohm, H., Stober, J., and Pütterich, T.: Plasmaphysik II – Kernfusionsforschung – Übersicht. (SS 2016. Vorlesung, Ludwig-Maximilians-Universität München).

Zuin, M., Stevanato, L., Martines, E., Auriemma, F., Momo, B., Cavazzana, R., De Masi, G., Gonzalez, W., Lorenzini, R., Scarin, P., Spagnolo, S., Spolaore, M., Vianello, N., Schneider, W., Cester, D., Nebbia, G., Sajo-Bohus, L., and Viesti, G.: Characterization of Particle Dynamics and Magnetic Reconnection in the RFX-mod Plasmas. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

Zurro, B., Hollmann, E. M., Baciero, A., Dux, R., Ochando, M. A., Medina, F., McCarthy, K. J., Lopez-Miranda, B., Pastor, I., and TJ-II Team: Transport analysis of different charge/mass impurities injected by laser blow-off in ECRH heated plasmas of TJ-II. (43rd EPS Conference on Plasma Physics, 2016-07-04 to 2016-07-08, Leuven).

Zurro, B., Velasco, J. L., Hollmann, E. M., Baciero, A., Ochando, M. A., McCarthy, K. J., Medina, F., Pastor, I., Hajjar, R. J., Garcia-Regana, J. M., Melnikov, A. V., Eliseev, L. G., HIBP Team, and TJ-II Team: Transport analysis of impurities injected by laser blow-off in ECRH and NBI heated plasmas of TJ-II. (42nd EPS Conference on Plasma Physics, 2015-06-22 to 2015-06-26, Lisbon).

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