



Corrigendum: The Structure of Oxygen Vacancies in the Near-Surface of Reduced CeO₂ (111) Under Strain

OPEN ACCESS

Edited and reviewed by:

Zhuhua Zhang,
Nanjing University of Aeronautics and
Astronautics, China

***Correspondence:**

Maria Verónica Ganduglia-Pirovano
vgp@icp.csic.es

Yi Gao
gaoyi@sinap.ac.cn

†These authors have contributed
equally to this work

‡Present address:

Zhong-Kang Han,
Fritz Haber Institute of the Max Planck
Society, Berlin, Germany

Specialty section:

This article was submitted to
Physical Chemistry and Chemical
Physics,
a section of the journal
Frontiers in Chemistry

Received: 27 September 2019

Accepted: 05 November 2019

Published: 22 November 2019

Citation:

Han Z-K, Zhang L, Liu M,
Ganduglia-Pirovano MV and Gao Y
(2019) Corrigendum: The Structure of
Oxygen Vacancies in the Near-Surface
of Reduced CeO₂ (111) Under Strain.
Front. Chem. 7:795.
doi: 10.3389/fchem.2019.00795

Zhong-Kang Han^{1†}, Lei Zhang^{2†}, Meilin Liu², Maria Verónica Ganduglia-Pirovano^{3*} and Yi Gao^{1,4*}

¹ Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai, China, ² Center for Innovative Fuel Cell and Battery Technologies, School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA, United States, ³ Institute of Catalysis and Petrochemistry, Spanish National Research Council (CSIC), Madrid, Spain, ⁴ Zhangjiang Laboratory, Shanghai Advanced Research Institute, Chinese Academy of Sciences, Shanghai, China

Keywords: CeO₂, density functional theory, oxygen vacancy, strain, surface structures

A Corrigendum on

The Structure of Oxygen Vacancies in the Near-Surface of Reduced CeO₂ (111) Under Strain by Han, Z.-K., Zhang, L., Liu, M., Ganduglia-Pirovano, M. V., and Gao, Y. (2019). *Front. Chem.* 7:436. doi: 10.3389/fchem.2019.00436

In the original article, there was a mistake in **Figure 8** as published. The SSV and SSSV labeling in the top-right and bottom-left panels were interchanged. Moreover, in the bottom-right panel, the Densities of states (DOS) summed over spin projections and all atoms for a SSSV shown, did not correspond to those of the structure under the +4% strain with AB and 12 Ce³⁺ configurations and 5 × 5 periodicity, as indicated in the caption. The corrected **Figure 8** appears below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Copyright © 2019 Han, Zhang, Liu, Ganduglia-Pirovano and Gao. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

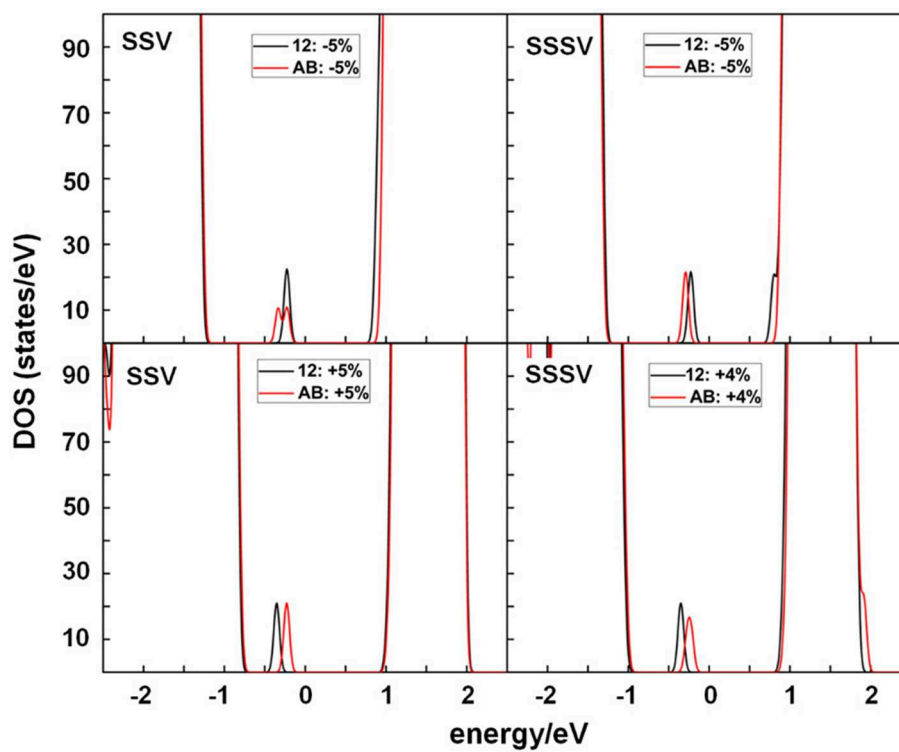


FIGURE 8 | Densities of states (DOS) summed over spin projections and all atoms for a SSV and SSSV under -5%, and +5%, or +4% strain with AB and 12 Ce^{3+} configurations and 5×5 periodicity. The Fermi level is set as the zero energy value, below which the states are occupied.