

Materials List for:

## Preparation of Carbon Nanosheets at Room Temperature

Stephen Schrettl<sup>1</sup>, Bjoern Schulte<sup>1</sup>, Cristina Stefaniu<sup>2</sup>, Joana Oliveira<sup>2</sup>, Gerald Brezesinski<sup>2</sup>, Holger Frauenrath<sup>1</sup>

<sup>1</sup>Institute of Materials, Ecole Polytechnique Fédérale de Lausanne (EPFL)

<sup>2</sup>Colloid Chemistry Department, Max Planck Institute of Colloids and Interfaces

Correspondence to: Holger Frauenrath at [holger.frauenrath@epfl.ch](mailto:holger.frauenrath@epfl.ch)

URL: <http://www.jove.com/video/53505>

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### Materials

Name	Company	Catalog Number	Comments
Methylithium lithium bromide complex (2.2 M solution in diethylether)	Acros	18129-1000	air-sensitive, flammable
Zinc chloride (0.7 M solution in THF)	Acros	38945-1000	air-sensitive, flammable
1,1'-Bis(diphenylphosphino)ferrocene] dichloropalladium(II), DCM adduct	Boron Molecular	BM187	
N-Bromosuccinimide	Acros	10745	light-sensitive
Silver fluoride	Fluorochem	002862-10g	light-sensitive
n-Butyllithium (2.5 M solution in hexanes)	Acros	21335-1000	air-sensitive, flammable
Sodium methanolate	Acros	17312-0050	
Tetrahydrofuran (unstabilized, for HPLC)	Fisher Chemicals	T/0706/PB17	This solvent was dried as well as degassed using a solvent purification system (Innovative Technology, Inc, Amesbury, MA, USA)
Toluene (for HPLC)	Fisher Chemicals	T/2306/17	This solvent was dried as well as degassed using a solvent purification system (Innovative Technology, Inc, Amesbury, MA, USA)
Acetonitrile (for HPLC)	Fisher Chemicals	A/0627/17	This solvent was dried as well as degassed using a solvent purification system (Innovative Technology, Inc, Amesbury, MA, USA)
Dichloromethane (Extra Dry over Molecular Sieve)	Acros	34846-0010	
Chloroforme (p.a.)	VWR International	1.02445.1000	
Pentane	Reactolab	99050	Purchased as reagent grade and distilled once prior to use
Heptane	Reactolab	99733	Purchased as reagent grade and distilled once prior to use
Dichloromethane	Reactolab	99375	Purchased as reagent grade and distilled once prior to use
Diethylether	Reactolab	99362	Purchased as reagent grade and distilled once prior to use
Geduran silica gel (Si 60, 40-60 µm)	Merck	1115671000	
Langmuir trough	R&K, Potsdam		

Thermostat	E1 Medingen		
Hamilton syringe	Model 1810 RN SYR		
Vertex 70 FT-IR spectrometer	Bruker		
External air/water reflection unit (XA-511)	Bruker		
UV lamp (250 W, Ga-doped metal halide bulb)	UV-Light Technology		
Brewster angle microscope (BAM1+)	NFT Göttingen		
Sapphire substrates	Stecher Ceramics		
Quantifoil holey carbon TEM grids	Electron Microscopy Sciences		
Nuclear magnetic resonance spectrometer (Bruker Avance III 400)	Bruker		
JASCO V-670 UV/Vis spectrometer	JASCO		
Scanning Electron Microscope (Zeiss Merlin FE-SEM)	Zeiss		