

Materials List for:

Surface Functionalization of Metal-Organic Frameworks for Improved Moisture Resistance

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Materials

Name	Company	Catalog Number	Comments
Basolite C-300	Sigma-Aldrich	688614	Commercial HKUST
Anhydrous Methanol (99.8%)	Sigma-Aldrich	322415	
Anhydrous Chloroform (>99%)	Sigma-Aldrich	288306	
Mettler Toledo TGA/SDTA 851	Mettler Toledo		Thermogravimetric Analyser
Agilent Cary 630 FTIR	Agilent		FT-IR Spectrophotometer, ATR Module
PANalytical X'Pert Pro	PANalytical		Powder XRD Diffractometer
AUTOSORB-6 apparatus	Quantachrome		Nitrogen Isotherms were carried out with this equipment. Activation of the samples was carried out under dynamic vacuum at 170 °C. Performed by the technical service of Universitat d'Alacant.
K-Alpha X-ray photoelectron spectrometer system	Thermo-Scientific		Analysis were performed at the X-Ray unit of the Universitat d'Alacant
FEI Quanta 650 FEG scanning electron microscope	Fisher Scientific		Used to observe particle morphologies and dimensions