

Materials List for:

Preparation of Hydrophobic Metal-Organic Frameworks via Plasma Enhanced Chemical Vapor Deposition of Perfluoroalkanes for the Removal of Ammonia

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Materials

Name	Company	Catalog Number	Comments
Copper (II) Nitrate Trihydrate	Sigma-Aldrich	61194	
Trimesic acid	Sigma-Aldrich	482749	
Ethanol	Sigma-Aldrich	130147	
Dimethyl Formamide	Sigma-Aldrich	319937	
Dichloromethane	Sigma-Aldrich	187332	
Hexafluoroethane	Synquest Labs	1100-2-05	
Femto-Plasma System	Diener Electronic	Basic unit type B	
Plasma Generator	Diener Electronic	Type D	0-100 W at 13.56 MHz
Rotary Vane Pump for Plasma System	Leybold	D16BCS PFPE	Appropriate for corrosive gases
Powder Treatment Device	Diener Electronic	Option 5.9	Glass bottle and rotating devise within plasma system
Environmental Chamber	Associated Environmental Systems	HD-205	
Gas Chromatograph	Hewlet Packard	HP5890 Series II	
Photoionization Detector	O-I Analytical	4430/5890	
Photoionization Detector Lamp	Excilite	FK-794U	
Water bath	NESLAB	RTE-111	
Fritted glass tubes	CDA Analytical	MX062101	Dynatherm sampling tubes