

Materials List for:

Layer-by-layer Synthesis and Transfer of Freestanding Conjugated Microporous Polymer Nanomembranes

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Materials

Name	Company	Catalog Number	Comments
Acetone	VWR BDH Prolabo	20066.330	AnalR NORMAPUR
Potassium iodide	VWR BDH Prolabo	26846.292	AnalR NORMAPUR
Ethyl acetate	VWR BDH Prolabo	23882.321	AnalR NORMAPUR
Tetrahydrofuran (THF)	VWR BDH Prolabo	28559.320	HiPerSolv CHROMANORM
THF waterfree	Merck Millipore	1.08107.1001	SeccoSolv
Iodine	Sigma-Aldrich	20,777-2	
Tetrakis(acetonitrile) copper(I) hexafluoro-phosphate	Sigma-Aldrich	346276-5G	
Poly(methyl methacrylate) 996 kDa (PMMA)	Sigma-Aldrich	182265-25G	
1.1.1.1 Methanetetrayltetrakis(4-azidobenzene) (TPM-azide)			Provided by AK Prof. Bräse. Institute of organic chemistry, Karlsruhe Institute of Technology. Synthesized according to ⁹ .
1.1.1.1 Methanetetrayltetrakis(4-ethynylenebenzene) (TPM-alkyne)			Provided by AK Prof. Bräse. Institute of organic chemistry, Karlsruhe Institute of Technology. Synthesized according to ⁹ .
11-thioacetyl-undecaneacid propargylamide			Provided by AK Prof. Bräse. Institute of organic chemistry, Karlsruhe Institute of Technology. Synthesized according to ⁸ .
gold/titan coated silicium-wafer	Georg Albert PVD, 76857 Silz, Germany		
gold coated mica	Georg Albert PVD, 76857 Silz, Germany		