

Materials List for:

Photochemical Oxidative Growth of Iridium Oxide Nanoparticles on CdSe@CdS Nanorods

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Materials

Name	Company	Catalog Number	Comments
Sulfur (S)	Sigma	84683	
Selenium (Se)	Sigma	229865	
Cadmium Oxide (CdO)	Sigma	202894	Highly Toxic
n-Octadecylphosphonic acid (ODPA)	Sigma	715166	
Propylphosphonic acid (PPA)	Sigma	305685	Highly regulated in some countries and regions
Butylphosphonic acid (BPA)	Sigma	737933	Alternative to PPA
Hexylphosphonic acid (HPA)	Sigma	750034	Alternative to PPA
Trioctylphosphonic oxide (TOPO)	Sigma	346187	
Tri-n-octylphosphine, 97% (TOP)	Sigma	718165	Air sensitive
Spectrochemical Stirbar	Sigma	Z363545	
Sodium Hydroxide	Sigma	S5881	
Methanol	Sigma	322415	
Toluene	Sigma	244511	
Hexane	Sigma	296090	
Octylamine	Sigma	74988	
Nonanoic Acid	Sigma	N5502	
Isopropanol	Sigma	278475	
Mercaptoundecanoic Acid (MUA)	Sigma	674427	
Tetramethylammonium Hydroxide (TMAH)	Sigma	T7505	
Apiezon H Grease (high temperature grease)	Sigma	Z273562	
Sodium Persulfate	Sigma	216232	
Sodium Nitrate	Sigma	229938	
Sodium Hexachloroiridate(III) hydrate	Sigma	288160	
Mounted 455 nm LED	Thorlabs	M455L3	
Cuvette Holder	Thorlabs	CVH100	
25 ml 3-neck Round Bottom Flask	Chemglass	CG-1524-A-02	
Liebig Condensor	Chemglass	CG-1218-A-20	
T-Joint Adapter	Chemglass	AF-0509-10	