

Materials List for:

Preparation of Silica Nanoparticles Through Microwave-assisted Acid-catalysis

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Materials

Name	Company	Catalog Number	Comments
Tetramethylorthosilicate	Sigma Aldrich	218472	
Hydrochloric acid, 37%	Sigma Aldrich	435570	
Acetone	Fisher	A949SK	
Sulfuric acid	EMD Millipore	SX1244	
Hydrogen peroxide, 30%	EMD Millipore	HX0635	
Discover microwave reactor	CEM		
10 ml Borosilicate reaction vial	CEM	908035	
10 ml Snap cap	CEM	909210	
3 mm Stir bar	Fisher Scientific	14-513-65	
Highly polished silicon wafers	Broker	SP064483	
S4800 SEM	Hitachi		
Zetasizer Nano90	Malvern		
Polystyrene cuvette, (10 mm x 10 mm x 45mm)	Sarstedt	67.754	
5415D centrifuge	Eppendorf		
Hummer 6.2 sputter system	Anatech		