

Materials List for:

# A Technique to Functionalize and Self-assemble Macroscopic Nanoparticle-ligand Monolayer Films onto Template-free Substrates

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URL: <https://www.jove.com/video/51282>

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## Materials

Name	Company	Catalog Number	Comments
1,6-hexanedithiol	Sigma	H12005-5G	
1-dodecanethiol	Sigma	471364-100ML	
20 ml liquid scintillation vials	Sigma	Z253081-1PAK	
Acetone	Sigma	650501-1L	
Amicon ultra-15 centrifugal filter	Millipore	100K	
Centrifuge	Sorvall	RC5B	
Centrifuge	Eppendorf	5810R	
Deionized water	In-house	N/A	
Glass slides	Sigma	CLS294875X25-72EA	
15 nm gold nanospheres	Ted Pella, Inc	15703-1	
Hexamethyldisilazane	Sigma	52619-50ML	
Hydrogen peroxide (30%)	Sigma	216763-100ML	
Scanning electron microscope	Carl Zeiss	Model 55	
Polished silicon wafer	Sun Edison	N/A	
spectrometer	OceanOptics	USB4000-VIS-NIR	
Sulfuric acid	Fisher	A300-212	
Tetrahydrofuran	Sigma	401757-100ML	