

Materials List for:

Synthesis and Functionalization of Nitrogen-doped Carbon Nanotube Cups with Gold Nanoparticles as Cork Stoppers

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URL: <https://www.jove.com/video/50383>

DOI: [doi:10.3791/50383](https://doi.org/10.3791/50383)

Materials

Name	Company	Catalog Number	Comments
Reagents			
H ₂	Valley National Gases	Grade 5.0	
Ar	Valley National Gases	Grade 5.0	
Ferrocene	Sigma-Aldrich	F408-500G	
Xylenes	Fisher Scientific	X5-500	
Acetonitrile	EMD	AXO149-6	
H ₂ SO ₄	Fisher Scientific	A300-500	
HNO ₃	EMD	NX0409-2	
DMF	Fisher Scientific	D119-500	
Ethanol	Decon	2716	
Phenol	Sigma-Aldrich	P1037-100G	
Pyridine	EMD	PX2020-6	
Hydridantin	Sigma-Aldrich	H2003-10G	
Ninhydrin	Alfa Aesar	43846	
HAuCl ₄	Sigma-Aldrich	52918-1G	
Sodium Citrate	SAFC	W302600	
Equipment			
CVD Furnace	Lindberg/Blue		
TEM (low-resolution)	FEI Morgagni		
TEM (high-resolution)	JOEL	2100F	
Probe-tip Sonicator	Qsonica	XL-2000	
UV-Vis Spectrometer	Perkin-Elmer	Lambda 900	
Zeta Potential Analyzer	Brookhaven	ZetaPlus	
EDX spectroscopy	Phillips	XL30 FEG	