

Materials List for:

Multifunctional Hybrid Fe₂O₃-Au Nanoparticles for Efficient Plasmonic Heating

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Materials

Name	Company	Catalog Number	Comments
Gold(III) chloride trihydrate	Sigma-Aldrich	520918	≥99.9% trace metals basis
Iron(III) oxide	Sigma-Aldrich	544884	nanopowder, <50 nm particle size (BET)
Sodium citrate tribasic dihydrate	Sigma-Aldrich	S4641	ACS reagent, ≥99.0%
SEM	Hitachi	S8200	
TEM	Hitachi	H95000	
EDX	Oxford Instruments	SDD - X-Max	
DLS	Brookhaven Instruments	NanoBrook Omni	
ICP-MS	Agilent	7500s	
UV-Vis-NIR spectrometer	Tec5 MultiSpec		
Laser, λ = 532 nm	Del Mar Photonics	DMPV-532-1	
Microgram Balance	Mettler Toledo	XP205	
Infrared Thermocouples	Omega Engineering	OS801-HT	