

Materials List for:

A Rapid Synthesis Method for Au, Pd, and Pt Aerogels Via Direct Solution-Based Reduction

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Materials

Name	Company	Catalog Number	Comments
HAuCl ₄ ·3H ₂ O	Sigma-Aldrich	16961-25-4	
Na ₂ PdCl ₄	Sigma-Aldrich	13820-40-1	
K ₂ PtCl ₆	Sigma-Aldrich	16921-30-5	
Pd(NH ₃) ₄ Cl ₂	Sigma-Aldrich	13933-31-8	
K ₂ PtCl ₄	Sigma-Aldrich	10025-99-7	
Pt(NH ₃) ₄ Cl ₂ ·H ₂ O	Sigma-Aldrich	13933-31-8	
dimethylamine borane (DMAB)	Sigma-Aldrich	74-94-2	
NaBH ₄	Sigma-Aldrich	16940-66-2	
NaH ₂ PO ₂ ·H ₂ O	Sigma-Aldrich	10039-56-2	
Ethanol	Sigma-Aldrich	792780	
Snap Cap Microcentrifuge Tubes, 2.0 mL	Cole Parmer	UX-06333-70	
Snap Cap Microcentrifuge Tubes, 1.7 mL	Cole Parmer	UX-06333-60	
Conical Centrifuge Tubes 15mL	Stellar Scientific	T15-101	
Ag/AgCl Reference Electrode	BASi	MF-2052	
Pt wire electrode	BASi	MF-4130	
Microstop Lacquer	Tober Chemical Division	NA	
Potentiostat	Biologic-USA	VMP-3	Electrochemical analysis-EIS, CV
Freeze Dryer	Labconco	Freezone 2.5 Liter	Aerogel freeze drying
XRD	PanAlytical	Empyrean	X-ray diffractometry
Surface and Pore Analyzer	Quantachrome	NOVA 4000e	Nitrogen gas adsorption
ImageJ, Image analysis software	National Institute of Health	NA	SEM image analysis