

Materials List for:

A Salt-Templated Synthesis Method for Porous Platinum-based Macrobeams and Macrotubes

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URL: <https://www.jove.com/video/61395>

DOI: [doi:10.3791/61395](https://doi.org/10.3791/61395)

Materials

Name	Company	Catalog Number	Comments
50 mL Conical Tubes	Corning Costar Corp.	430290	
Ag/AgCl Reference Electrode	BASi	MF-2052	
Cu(NH ₃) ₄ SO ₄ •H ₂ O	Sigma-Aldrich	10380-29-7	
dimethylamine borane (DMAB)	Sigma-Aldrich	74-94-2	
K ₂ PtCl ₄	Sigma-Aldrich	10025-99-7	
Microstrop Lacquer	Tober Chemical Division	NA	
Na ₂ PdCl ₄	Sigma-Aldrich	13820-40-1	
NaBH ₄	Sigma-Aldrich	16940-66-2	
Polarized Optical Microscope	AmScope	PZ300JC	
Potentiostat	Biologic-USA	VMP-3	Electrochemical analysis-EIS, CV
Pt wire electrode	BASi	MF-4130	
Pt(NH ₃) ₄ Cl ₂ •H ₂ O	Sigma-Aldrich	13933-31-8	
Scanning Electron Microscope	FEI	Helios 600	EDS performed with this SEM
Shelf Rocker	Thermo Scientific	Vari-Mix™ Platform Rocker	
Snap Cap Microcentrifuge Tubes, 1.7 mL	Cole Parmer	UX-06333-60	
X-ray diffractometer	PanAlytical	Empyrean	X-ray diffractometry
X-ray photoelectron spectrometer	ULVAC PHI - Physical Electronics	VersaProbe III	