

Materials List for:

Asymmetric Thermoelectrochemical Cell for Harvesting Low-grade Heat under Isothermal Operation

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Materials

Name	Company	Catalog Number	Comments
Alumina laminated film	Showa Denko	SPALF C4	
Carbon black	Alfa Aesar	H30253.22	
Carbon paper	CeTech Co. Ltd	W0S1009	
Carboxymethyl cellulose (CMC)	Guidechem company		
DC Power supply	B&K Precision	Model 913-B	
Doctor blade coater	Shining Energy Co. Ltd		
Gamry	Gamry Instruments	Reference 3000	
Graphite	Sigma-Aldrich	332461-2.5KG	
Mixer	Thinky	ARE-250	
Nickel tab	Tianjin Iversonchem company		4 mm width
N-Methyl-2-pyrrolidone (NMP)	Sigma-Aldrich	443778-1L	
Polyaniline (leucoemeraldine base)	Sigma-Aldrich	530670-5G	
potassium permanganate (KMnO ₄)	Sigma-Aldrich	223468-500G	
Separator	CLDP		25 um thickness
Sodium nitrate (NaNO ₃)	Sigma-Aldrich	S5506-250G	
Styrene butadiene	Tianjin Iversonchem company	BM400	
Sulfuric acid	Sigma-Aldrich	320501-2.5L	
Thermoelectric modules	CUI Inc.	CP455535H	
Titanium foil	Qingyuan metal		0.03 mm thickness