

Materials List for:

A Protocol for Electrochemical Evaluations and State of Charge Diagnostics of a Symmetric Organic Redox Flow Battery

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Materials

Name	Company	Catalog Number	Comments
PTIO	TCI America	A5440	>98.0%
Tetrabutylammonium hexafluorophosphate	Sigma-Aldrich	86879	electrochemical grade, ≥99.0%
MeCN	BASF	50325685	Battery grade
Silver nitrate	Sigma-Aldrich	204390	99.9999% trace metals basis
Gamma alumina powder	CH Instruments	CHI120	
Graphite felt	SGL	GFD3	Vacuum-dry at 70 °C for 24 h
Porous separator	Daramic	AA800	Vacuum-dry at 70 °C for 24 h
Battery Tester	Wuhan LAND electronics Co., Ltd.	Lanhe	1 A current range
Electrochemical Workstation	Solartron Analytical	ModuLab	
glove box	MBRAUN	Labmaster SP	oxygen and water levels <1 ppm
ESR spectrometer	Bruker	Eleksys 580	Equipped with an SHQE resonator with microwave frequency ~9.85 GHz (X band) at 2 mW power, with 100 kHz field modulation