

Materials List for:

Electrochemical Etching and Characterization of Sharp Field Emission Points for Electron Impact Ionization

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Materials

Name	Company	Catalog Number	Comments
Tungsten Rod 0.020" x 12"	ESPI Metals	http://www.espimetals.com/index.php/online-catalog/467-Tungsten	3N8 Purity
50% by weight NaOH solution	Sigma-Aldrich	415413-500ML	500 ml
Separatory funnel	Cole-Parmer	Item# WU-34506-03	250 ml
DC Power supply	BK Precision	1672	Triple Output 0 - 32 V, 0 - 3 A DC Power Supply
Acetone	Cole-Parmer	Item# WU-88000-68	500 ml
Data Acquisition Card	National Instruments	NI PXI-6221	16 AI, 24 DIO, 2 AO
Relay	Magnecraft	276 XAXH-5D	7 A, 30 V DC Reed Relay
6-way 6" conflat flange cross	Kurt J Lesker	C6-0600	
6" to 2-3/4" conflat zero length reducer flange (x3)	Kurt J Lesker	RF600X275	
2-3/4" conflat flange SHV feedthrough	Kurt J Lesker	IFTSG041033	
2-3/4" conflat flange BNC feedthrough	Kurt J Lesker	IFTBG042033	
2-3/4" conflat flange linear feedthrough	MDC	660006, REF# BLM-275-2	
6" conflat flange blankoff	Kurt J Lesker	F0600X000N	
6" conflat flange window	Kurt J Lesker	VPZL-600	
HV Power supply	Keithley Instruments	Keithley Model #2290-5	0 - 5 kV DC HV Power Supply
Picoammeter	Keithley Instruments	Keithley Model #6485	
Faraday Cup	Beam Imaging Solutions	Model FC-1 Faraday Cup	