Solutions To Your Electrochemical Research Needs

Fundamental Electrochemistry

Consulting
Experts in the field of electrochemistry and electrochemical energy storage and conversion

Testing
Multiple fuel cell test stations
Multiple flow battery test stations
Facility to fabricate 100F supercapacitors and other spiral wound devices
Testing equipment and services available to industry

Coordination
University wide resources
Great Lakes Energy Institute
Energy Solutions
Yeager Center for Electrochemical Electrochemical Research
Swagelok Center
Material Surface Analysis

Education
Degreed Programs and Research for Bachelor, Master and Doctorate

Workshop on Electrochemical Engineering
Prof. Uziel Landau (uziel.landau@case.edu)

Electrochemical Measurement Workshop
Prof. Daniel A. Scherson (dks16@case.edu)

Potentialstats/Galvanostats
Impedance Analysis
Rotating Disk Electrodes
Differential Electrochemical Mass Spectroscopy (DEMS)

Fuel Cell Testing
Single Cell or Small Stacks
5 to 100cm² Active Areas
Up to 600 Watts
Custom Multicell Test Station

Flow Battery Testing
Single Cell and Small Stack
System Level Development

Electrochemical Device Prototypes
Capacitor Prototyping Center

Contacts
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PEM
PBI
Direct Methanol
Alkaline
Phosphoric Acid
SOFC
Reversible Novel Systems
PUBLICATIONS

HIGH TEMPERATURE PEM FUEL CELLS


BATTERIES


ELECTROCHEMICAL ENGINEERING


Z. Liu, J. S. Wainright, W. Huang, and R. F. Savinell, "Positioning the Reference Electrode in Proton Exchange Membrane Fuel Cells: