Micro Fuel Cell

Motivation

– Fuel cells generate electricity directly from chemical energy stored in reactants.
– Microfabrication technologies introduce scaling benefits and parallel fabrication.

Accomplishments

– Functionally demonstrated new multi-cell design with planar interconnection.
– Investigated novel 3-D electrode & electrolyte structures having high aspect ratio.
– Explored micro pattern-transfer to porous metals and electro-chemically favorable polymers.