

**Department of Energy, Office of Science
Hydrogen Fuel Initiative
Basic Energy Sciences, 13 FY 2007 Hydrogen Awards**

Principal Investigator(s)			Project Title
Last Name	First Name	Institution	

Novel Hydrogen Storage Materials

Weitering	Hanno	Oak Ridge National Laboratory	Quantum Tuning of Chemical Reactivity for Storage and Generation of Hydrogen Fuels
Chabal	Yves	Rutgers University	Novel Theoretical and Experimental Approaches for Understanding and Optimizing Hydrogen-Sorbent Interactions in Metal Organic Framework Materials
Chen	Jiuhua	Florida International University	Influence of Pressure on Physical Property of Ammonia Borane and its Re-hydrogenation
Power	Philip	University of California, Davis	Activation of Hydrogen Under Ambient Conditions by Main Group Molecules
Van de Walle	Chris	University of California, Santa Barbara	Computational Studies of Hydrogen Interactions with Storage Materials
Pfeifer	Peter	University of Missouri-Columbia	Networks of Boron-Doped Carbon Nanopores for Low-Pressure Reversible Hydrogen Storage
Eddaoudi	Mohamed	University of South Florida	Novel Porous Metal-Organic Frameworks for Hydrogen Storage

Nanoscale Catalysts

Stair	Peter	Argonne National Laboratory	Structure/Composition/Function Relationships in Supported Nanoscale Catalysts for Hydrogen Generation
Rodriguez	Jose	Brookhaven National Laboratory	In-situ Studies of the Active Sites and Mechanism for the Water-Gas-Shift Reaction on Metal/Oxide Nanocatalysts
Tong	YuYe	Georgetown University	An in situ Electrode-Potential-Controlled Nuclear Magnetic Resonance Investigation of Sulfur-Poisoning Effect on Platinum Based Mono- and Bi-metallic Nanoscale Electrocatalysts
Ozkan	Umit	Ohio State University	Investigation of the Nature of Active Sites on Heteroatom-Containing Carbon Nano-Structures for Oxygen Reduction Reaction
Bullock	R. Morris	Pacific Northwest National Laboratory	New Bio-Inspired Molecular Catalysts for Hydrogen Oxidation and Hydrogen Production
Neurock	Matthew	University of Virginia	Theory-Aided Design of Active and Durable Nanoscale Cathode Catalysts