

Xiaoping Wang

Argonne National Laboratory
Chemical Sciences and Engineering Division
9700 South Cass Avenue, Building 205
Argonne, IL 60439-4837
phone: 630/ 252-1182, fax: 630/252-4176
e-mail: xiaoping.wang@anl.gov

Professional Experience

- **May 1997-Present. Argonne National Laboratory**
 - *May 2003–present.* Chemist, the Hydrogen and Fuel Cell group, Catalysis and Energy Conversion Theme, Chemical Sciences and Engineering Division. Research activities include synthesis and characterization of electrocatalysts, oxygen reduction and alcohol oxidation kinetics and mechanisms and their interrelationship with catalyst composition, structure and sizes, degradation rates and mechanisms of polymer electrolyte fuel cell cathode catalysts; corrosion behavior of PEFC bipolar plate materials.
 - *January 1999–April 2003.* Assistant Chemist, Fuel Cell Technology Department of the Chemical Engineering Division. Research activities include synthesis and characterization of sorbent for sulfur removal from reformat; effects of fuel constituents on the auto-thermal reforming of gasoline; sulfur tolerant anode materials for solid oxide fuel cell (SOFC), experimental design and characterization; monolithic SOFC stack modeling study.
 - *May 1997–December 1998.* Postdoctoral Appointee, Fuel Cells Technology Department. Conducted synthesis and characterization of high temperature cathode materials for SOFC.
- **December 1988–July 1992.** Lecturer, Department of Chemistry, Nanjing University, Nanjing, P. R. China. Conducted investigation on the transport properties of microelectrodes, developed electroanalytical methods for transition metal ions.
- **September 1985–November 1988.** Assistant Professor, Department of Chemistry, Nanjing University, Nanjing, P. R. China. Developed method for separation and analysis of toxic metal ions.

Education

- Ph.D., Electrochemistry, North Carolina State University, Raleigh, NC, 1997.
- M. S., Electroanalytical Chemistry, Nanjing University, Nanjing, P. R. China, 1988.
- B. S., Chemistry, Nanjing University, Nanjing, P. R. China, 1985.

Award

- Argonne National Laboratory Pacesetter Award (2005).

Career Activities & Highlights

- Performed pioneering study in understanding degradation mechanisms of PEFC cathodes.
- Developed a bimetallic PEFC cathode catalyst with an ORR activity approaching that of Pt.
- Developed sulfur sorbents that met DOE concentration targets for hydrogen sulfide removal from reformat.
- Coordinated and chaired International Energy Agency's Advanced Fuel Cell Implementing Agreement, Polymer Electrolyte Fuel Cell Annex Workshops as Operating Agent on behalf of DOE.