

Ye Xu

Research and Development Associate
Center for Nanophase Materials Sciences Division
Oak Ridge National Laboratory
(865) 574-9761
Xuy2@ornl.gov



Education

| | | | |
|---------------------------------------|----------------------|------|------|
| University of Wisconsin-Madison | Chemical Engineering | Ph.D | 2004 |
| Massachusetts Institute of Technology | Chemical Engineering | B.S. | 1999 |

Professional Experience

| | |
|--------------|--|
| 2006-present | Research and Development Associate, Center for Nanophase Materials Sciences Division, Oak Ridge National Laboratory. |
| 2004-2006 | Postdoctoral Research Associate, Computer Science and Mathematics Division, Oak Ridge National Laboratory. |

Professional and Synergistic Activities

- Member of American Institute of Chemical Engineers (AIChE), American Chemical Society (ACS), and Electrochemical Society (ECS).
- Session chair and co-chair at AIChE and ACS national meetings.
- Peer reviewer for *Journal for Physical Chemistry*, *Journal of the American Chemical Society*, *Surface Science*, *Applied Catalysis*, *Catalysis Today*, *ACS Catalysis*, and *Angewandte Chemie International Edition*.
- Proposal reviewer for Center for Nanoscale Materials (Argonne) and NSF.

Recognitions

- 2000 NSF Graduate Fellowship Honorable Mention.
- 1999 UW–Madison Chemical Engineering Departmental Fellowship.

Publications

30 publications including 3 book chapters.

Research Interests

- Computational modeling applied to the investigation of surface/interfacial chemical thermodynamics and kinetics; reaction mechanisms; and material properties.
- Heterogeneous catalysis and electrocatalysis on metals, metal compounds, and nano-materials.
- Current focuses: i) selective conversion of biomass-derived compounds; ii) rechargeable metal-air batteries as next-generation energy storage platform; iii) size-defined clusters as novel catalysts.

Graduate advisor: Manos Mavrikakis (Univ. of Wisconsin).

Postdoctoral advisors: William F. Schneider (Univ. of Notre Dame); William A. Shelton (ORNL).

Postdoctoral associates: Lijun Xu (Univ. Virginia); Lymarie Semidey-Flecha (Procter & Gamble); Gopi Krishna Phani Dathar; Bradley Habenicht.

