

## Jia Zhou

Postdoctoral Research Associate  
Nanomaterials Theory Institute  
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### Education

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| Shanghai Jiao Tong University, China | Applied Chemistry  | B.E., 2003  |
| Fudan University, China              | Physical Chemistry | M.Sc., 2006 |
| Wayne State University, MI           | Physical Chemistry | Ph.D., 2011 |

### Professional Experience

2012–present Postdoctoral Research Associate, Oak Ridge National Laboratory, TN  
2011–2012 Postdoctoral Research Associate, Texas A&M University, TX  
2006–2011 Teaching and Research Assistant, Wayne State University, MI

### Honors and Awards

2010 Chinese Government Award for Outstanding Students Abroad, China  
2007 Excellent Master's Dissertation Award of Shanghai, China

### Publications (Over 10 publications)

#### Research Synopsis

1. *Li-S Battery*

We are trying to understand the Li-S battery from a theoretical point of view. By knowing more about the process, we are hoping to improve the efficiency and life time of the Li-S battery.

2. *Computational Inorganic Chemistry*

We use computational chemistry methods to study the reaction mechanisms. Those reactions are usually catalyzed by transition metals.

3. *Ab Initio Molecular Dynamics*

Ab initio molecular dynamics is used to study the unimolecular dissociation. It is an accurate way to understand the reactions.

### Graduate and Postdoctoral Advisors

Postdoctoral Advisors:

Jingsong Huang, Oak Ridge National Laboratory  
Michael B. Hall and Oleg V. Ozerov, Texas A&M University

Graduate Advisors:

H. Bernhard Schlegel, Wayne State University  
Kangnian Fan, Fudan University