

## **Hao-Bo Guo, Ph. D.**

<http://cmb.ornl.gov/people/hab>

### **EDUCATION**

- Ph.D. Physical Chemistry.** Tsinghua University, Beijing, China, 2003  
**B.S. Chemistry.** Tsinghua University, Beijing, China, 1997

### **RESEARCH EXPERIENCE**

**1/2008-Present** Postdoctoral Research Associate, Center for Molecular Biophysics, University of Tennessee Knoxville/Oak Ridge National Laboratory

**12/2003-12/2007** Postdoctoral Research Associate, Department of Biochemistry, Cellular & Molecular Biology, University of Tennessee at Knoxville

**09/1997-01/2003.** Graduate Research Assistant, Department of Chemistry, Tsinghua University, Beijing China.

### **CURRENT RESEARCH DIRECTION**

- Theoretical studies of the mechanism of the mercuric ion reductase MerA
- Theoretical studies of the photoreduction of Hg<sup>2+</sup> in aquatic environments

### **AFFILIATIONS**

- ACS, AAAS, Sigma-Xi

### **SELECTED PUBLICATIONS**

- 1 D. Riccardi, **H.B. Guo**, J.M. Parks, B. Gu, L. Liang, J.C. Smith. *J. Chem. Theory Comput.* **2013**, 9, 555-569.
- 2 **H.B. Guo**, F. He, B. Gu, L. Liang, J.C. Smith. *J. Phys. Chem. A* **2012**, 116, 11870-11879.
- 3 **H.B. Guo**, J.M. Parks, A. Johs, J.C. Smith. In *Modeling of Molecular Properties*. P. Comba (Ed.), Wiley-VCH **2011**, 311-324.
- 4 S. Yang, M. Land, D. Klingeman, D. Pelletier, T.Y. Lu, S. Martin, **H.B. Guo**, J.C. Smith, S. Brown. *Proc. Natl. Acad. Sci. USA* **2010**, 107, 10395-10400.
- 5 **H.B. Guo**, A. Johs, J.M. Parks, L. Olliff, S.M. Miller, A.O. Summers, L. Liang, J.C. Smith. *J. Mol. Biol.*, **2010**, 398, 555-568.
- 6 M. Saharay, # **H.B. Guo**, # J.C. Smith, H. Guo, In *Computational Modeling in Lignocellulosic Biofuel Production*, Nimlos, M. R., Crowley, M. F. (Eds.), American Chemical Society Publications **2010**, 135-154. #Co-first authors.
- 7 **H.B. Guo**, A. Gorin, H. Guo. *Interdiscipl. Sci. Comput. Life Sci.* **2009**, 1, 12-20.
- 8 **H.B. Guo**, H. Guo. *Proc. Natil. Acad. Sci. USA* **2007**, 104, 8797-8802.
- 9 Q. Xu#, **H.B. Guo**#, A. Wlodawer, T. Nakayama, H. Guo. *Biochemistry* **2007**, 46, 3784-3792. #Co-first authors.
- 10 **H.B. Guo**, A. Wlodawer, T. Nakayama, Q. Xu, H. Guo. *Biochemistry* **2006**, 45, 9129-9137.

- 11 Q. Xu, **H.B. Guo**, A. Wlodawer, H. Guo. *J. Am. Chem. Soc.* **2006**, *128*, 5994-5995.
- 12 **H.B. Guo**, A. Wlodawer, H. Guo. *J. Am. Chem. Soc.* **2005**, *127*, 15662-15663.
- 13 **H.B. Guo**, N. Rao, Q. Xu, H. Guo. *J. Am. Chem. Soc.* **2005**, *127*, 3191-3197.
- 14 **H.B. Guo**, R. F. Beahm, H. Guo. *J. Phys. Chem. B* **2004**, *108*, 18065-18072.
- 15 **H.B. Guo**, F. Zhang, G.S. Wu, F. Sun, S. Pu, X. Mai, G. Qi. *Opt. Mater.* **2003**, *22*, 269-274.