

师资队伍

化学学院

当前位置: 首页 师资队伍 在职教师 按学院分类 化学学院

在职教师

按字母分类

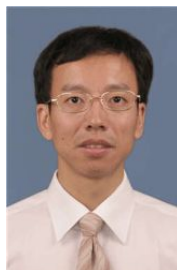
按学院分类

讲客座教授

名师介绍

博士研究生导师

硕士研究生导师



姓名: 鲍晓光

职称: 教授

部门: 化学学院

联系方式:

地址: 苏州市工业园区仁爱路199号; 907号楼1619室

邮编: 215123

电话: +86-512-65883796

Email: xgbao@suda.edu.cn

课题组网站

学历及学术经历:

2002年7月毕业于上海交通大学化学化工学院, 获学士学位; 2007年7月毕业于中国科学院上海药物研究所, 获博士学位。2007年8月至2010年8月在美国俄亥俄州立大学化学系从事博士后研究工作; 2010年9月至2012年8月在美国北德州大学化学系继续从事博士后研究工作; 2012年8月到苏州大学材化部工作。目前已经发表研究论文二十余篇, 其中部分第一作者文章发表在*Proc. Natl. Acad. Sci. USA*、*J. Am. Chem. Soc.*、*Angew. Chem. Int. Ed.*、*Chem. Sci.*等杂志上。曾获得中国科学院院长奖学金优秀奖和中国科学院刘永龄奖学金特别奖。

研究方向:

计算化学, 物理有机化学。

代表性论文:

1. **Xiaoguang Bao**, Jing Wang, Jiande Gu,* Jerzy Leszczynski* , "DNA strand breaks induced by near-zero-electronvolt electron attachment to pyrimidine nucleotides." , *Proc. Natl. Acad. Sci. USA* 2006, *103*, 5658-5663.
2. **Xiaoguang Bao**, Huai Sun, Ning-Bew Wong, Jiande Gu* , "Microsolvation effect, hydrogen bonding pattern, and electron affinity of the uracil-water complexes U-(H₂O)_n (n = 1, 2, 3)." , *J. Phys. Chem. B* 2006, *110*, 5865-5874.
3. **Xiaoguang Bao**, Guoming Liang, Ning-Bew Wong, Jiande Gu* , "Microsolvation patten of the hydrated radical anion of uracil: U-(H₂O)_n (n = 3, 4, 5)." , *J. Phys. Chem. A* 2007, *111*, 666-672.
4. Bao-Yu Wang, **Xiaoguang Bao**, Zhiqing Yan, Veselin Maslak, Christopher M. Hadad, Jovica D. Badji?* , "A 3-fold "Butterfly Valve" in Command of the Encapsulation's Kinetic Stability. Molecular Baskets at Work" , *J. Am. Chem. Soc.* 2008, *130*, 15127-15133.
5. Stephen Rieth, **Xiaoguang Bao**, Bao-Yu Wang, Christopher M. Hadad, Jovica D. Badji?* , "Gated Molecular Recognition and Dynamic Discrimination of Guests" , *J. Am. Chem. Soc.* 2010, *132*, 773-776.
6. **Xiaoguang Bao**†, Stephen Rieth†, Sandra Stojanovi?, Christopher M. Hadad, Jovica D. Badji?* , "Molecular Recognition of a Transition State" , *Angew. Chem. Int. Ed.* 2010, *49*, 4816-4819. († These authors contributed equally)
7. **Xiaoguang Bao**, Dieter von Deak, Elizabeth J. Biddinger, Umit S. Ozkan, and Christopher M. Hadad* , "A Computational Exploration of the Oxygen Reduction Reaction over a Carbon Catalyst Containing a Phosphinate Functional Group" , *Chem. Commun.* 2010, *46*, 8621-8623.
8. **Xiaoguang Bao**, David A. Hrovat and Weston Thatcher Borden* , "The Effects of Orbital Interactions on the Geometries of Some Annelated Benzenes" , *Theor. Chem. Acc.* 2011, *130*, 261-268.
9. Xuenian Chen †, **Xiaoguang Bao** †, Ji-Cheng Zhao,* and Sheldon G. Shore* , "Experimental and Computational Study of the Formation Mechanism of Diammoniate of Diborane: the Role of Dihydrogen Bonds" , *J. Am. Chem. Soc.* 2011, *133*, 14172-14175. (†These authors contributed equally)
10. **Xiaoguang Bao**, David A. Hrovat and Weston Thatcher Borden* , "Calculations of the Effects of Methyl Groups on the Energy Differences Between Cyclooctatetraene and Bicyclo[4.2.0]octa-2,4,7-triene and Between Their

- Iron Tricarbonyl Complexes", *J. Org. Chem.* 2012, 77, 956-965.
11. **Xiaoguang Bao**, Peng Tao, Frederick A. Villamena, and Christopher M. Hadad* , "Spin Trapping of Hydroperoxyl Radical by a Cyclic Nitron Conjugated to β -Cyclodextrin: A Computational Study" , *Theor. Chem. Acc.* 2012, 131, 1248-1257.
 12. **Xiaoguang Bao**, Xin Zhou, Charity Flener Lovitt, Amruth Venkatraman, David A. Hrovat, Rolf Gleiter, Roald Hoffmann,* and Weston Thatcher Borden* , "The Molecular Orbitals of the Oxocarbons (CO)_n, n = 2 – 6. Why Does (CO)₄ Have a Triplet Ground State?" , *J. Am. Chem. Soc.* 2012, 134, 10259–10270.
 13. David J. Babinski, **Xiaoguang Bao**, Marie El Arba, Bo Chen, David A. Hrovat, Weston Thatcher Borden,* and Doug E. Frantz * , "Synchronized Aromaticity as an Enthalpic Driving Force for the Aromatic Cope Rearrangement" , *J. Am. Chem. Soc.* 2012, 134, 16139–16142.
 14. **Xiaoguang Bao**, David A. Hrovat and Weston Thatcher Borden* , "Cooperative and Competitive Effects Associated with Fe(CO)₃ Binding to Annelated Benzenes", *Chem. Sci.* 2013, 4, 516-525.
 15. **Xiaoguang Bao**, David A. Hrovat, Weston Thatcher Borden,* Xue-bin Wang*,"Negative Ion Photoelectron Spectroscopy Confirms the Prediction that (CO)₅ and (CO)₆ Each Has a Singlet Ground State", *J. Am. Chem. Soc.* 2013, 135, 4291–4298.
 16. **Xiaoguang Bao**, Xiaowa Nie, Dieter von Deak, Elizabeth J. Biddinger, Wenjia Luo, Aravind Asthagiri,* Umit S. Ozkan,* and Christopher M. Hadad* , "A First-Principles Study of the Role of Quaternary-N Doping on the Oxygen Reduction Reaction Activity and Selectivity of Graphene Edge Sites", *Top. Catal.* 2013, 56, 1623–1633.
 17. **Xiaoguang Bao**,* David A. Hrovat and Weston Thatcher Borden*,"Like (CO)₄, Do (CS)₄ and (CSe)₄ Have a Triplet Ground State?", *Chem. Eur. J.* 2013, 19, 5687-5693.
 18. Jian Zhang, David A. Hrovat, Zhenrong Sun, **Xiaoguang Bao**,* Weston Thatcher Borden,* and Xue-Bin Wang*,"The Ground State of (CS)₄ Is Different from That of (CO)₄: An Experimental Test of a Computational Prediction by Negative Ion Photoelectron Spectroscopy", *J. Phys. Chem. A* 2013, 117, 7841–7846.