



- Bao-Yu Wang, Xiaoguang Bao, **Zhiqing Yan**, Veselin Maslak, Christopher M. Hadad, and Jovica D. Badjić “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.
- Stephen Rieth, **Zhiqing Yan**, Shijing Xia, Matthew Gardlik, Albert Chow, Gideon Fraenkel, Christopher M. Hadad, and Jovica D. Badjić “Molecular Encapsulation via Metal-to-Ligand Coordination in a Cu(I) Folded Molecular Basket,” *J. Org. Chem.*, **2008**, *73*(13), 5100-5109.
- Zhiqing Yan**, Troy McCracken, Shijing Xia, Veselin Maslak, Judith Gallucci, Christopher M. Hadad, and Jovica D. Badjić, “Supramolecular catalysis at work. Diastereoselective synthesis of a molecular bowl with Dynamic Inner Space,” *J. Org. Chem.*, **2008**, *73*, 355-363.
- Christopher Baddeley, **Zhiqing Yan**, Graham King, Patrick M. Woodward, and Jovica D. Badjić, “Structure-function studies of modular aromatics comprising molecular organogels,” *J. Org. Chem.*, **2007**, *72*(19), 7270-7278.
- Zhiqing Yan**, Shijing Xia, Matthew Gardlik, \*Wanji Seo, Veselin Maslak, Judith Gallucci, and Jovica D. Badjić, “Silver(I) mediated folding of a molecular basket,” *Org. Lett.*, **2007**, *9*(12), 2301-2304.
- Zhiqing Yan**, Yuning Chang, \*Dennis Mayo, Veselin Maslak, Shijing Xia, and Jovica D. Badjić, “Allosteric regulation of the conformational dynamics of a cavitand receptor,” *Org. Lett.*, **2006**, *8*(17), 3697-3700.
- Veselin Maslak, **Zhiqing Yan**, Shijing Xia, Judith Gallucci, Christopher M. Hadad, and Jovica D. Badjić, “Design, synthesis and conformational dynamics of a gated molecular basket,” *J. Am. Chem. Soc.*, **2006**, *128*, 5887-5894.
- Veselin Maslak, **Zhiqing Yan**, and Jovica D. Badjić, “Trifluorovinyl lithium” In “Encyclopedia of Reagents for Organic Synthesis,” John Wiley and Sons Ltd., UK, 2005.
- Zhiqing Yan** and John F. Sebastian, “Density functional study of the lithiation of cyclic vinyl ethers in solution,” *Tetrahedron Lett.*, **2004**, *45*(35), 6551-6555.
- Zhiqing Yan** and John F. Sebastian, “Investigation into the mechanism of lithiation of 2,3-dihydrooxepin,” *Tetrahedron*, **2004**, *60*, 10899-10906.
- Zhiqing Yan** and John F. Sebastian, “Density functional theory investigation of the deprotonation of oxete,” *Tetrahedron Lett.*, **2002**, *43*(11), 8383-8386.
- Dao-Lia Deng, Yan-Hui Zhang, Cong-Yun Dai, Hong Zeng, **Zhi-Qing Yan**, Chang-Qing Ye, Ha-Ge Ronald, “Crystal structures of two new monoprotonated products of 1,4,7-trimethyl-1,4,7-triazacyclononane: (Me-3[9]aneN(3)H) (SO<sub>3</sub>CF<sub>3</sub>) and (Me-3[9]aneN(3)H)I,” *Chinese Journal of Structural Chemistry*, **2000**, *19*(1), 48-52.

\*Undergraduate student co-author

## **Conference Presentations**

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- Baoyu Wang, Jovica Badjić, **Zhiqing Yan**, Xiaoguang Bao and Christopher Baddeley, “A Gated Guest Entrance in Command of the Encapsulation Thermodynamics. Molecular Baskets at Work,” 40<sup>th</sup> Central Regional Meeting, Columbus, OH, June 11–14, 2008.

2. **Zhiqing Yan**, Yuning Chang, Dennis Mayo, Veselin Maslak, Shijing Xia, and Jovica D. Badjić, “Modulating conformational dynamics of a cavitand using an external stimulus,” 232<sup>nd</sup> ACS National Meeting, San Francisco, CA, September 10, 2006.
3. **Zhiqing Yan** and John F. Sebastian, “Lithiation of 3,4-dihydro-2H-pyran: a density functional theory study,” 38<sup>th</sup> National Organic Chemistry Symposium, Indiana University, Bloomington, IN, June 8, 2003.
4. **Zhiqing Yan** and John F. Sebastian, “Density functional theory investigation of deprotonation of 2,3-dihydrofuran,” 225<sup>th</sup> ACS National Meeting, New Orleans, LA, March 23, 2003.

## **Courses Taught**

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CHM2440 Organic Chemistry I  
CHM2445 Organic Chemistry Lab I  
CHM2840 Organic Chemistry II  
CHM2845 Organic Chemistry Lab II  
CHM2430 Survey of Organic Chemistry  
CHM2435 Survey of Organic Chemistry Lab  
CHM1410 General Chemistry II  
CHM5050 Organic Chemistry for Natural Science Teachers

## **Committee Work**

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### **College of Science**

Scholars in Undergraduate Research at Eastern (SURE) Awards, since SP08  
College of Science Curriculum Committee (COSCC)

### **Departmental**

Awards  
Planning  
Undergraduate Research  
Curriculum  
Graduate  
Safety  
Website (as Chair)