# **Zhiqing Yan**

#### Work:

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#### Education

2004	Ph.D.	Organic Chemistry, Miami University, Oxford, OH						
		Dissertation:	"Theoretical	and	Experimental	Studies	of the	
			Lithiation of C Ethereal Solut	-	e Vinyl Ethers	in Gas P	hase and	
		Advisor: John F. Sebastian						
1995	B.Sc.	Applied Chemistry, Fudan University, Shanghai, China						

### **Experience**

2007 – present	Assistant professor of Chemistry. Eastern Illinois University					
2004 - 2007	Post-Doctoral Researcher. Ohio State University					
1999 - 2004	Part-time Graduate Teaching Assistant. Miami University					
1996 – 1999	Research Assistant. Unilever Research in Shanghai Institute o Chemistry (URSIOC), Shanghai, China	f Organic				
1995 – 1996	Research Assistant. Shanghai Institute of Organic Chemistry Shanghai, China	' (SIOC),				

#### **Awards and Honors**

William Hale Charch Scholarship, Miami University, 1999-2003. Graduate Student Achievement Award, Miami University, 2002.

# Memberships

American Chemical Society Member since 1999.

The Chinese-American Chemistry & Chemical Biology Professor Association since 2009. Sigma Xi, the Scientific Research Society since 2009.

#### **Publications**

1. Matthew Gardlik, **Zhiqing Yan**, Shijing Xia, Stephen Rieth, Judith Gallucci, Christopher M. Hadad, Jovica D. Badjić "A close inspection of Ag(I) coordination to molecular baskets. A study of salvation and guest encapsulation in solution and the solid state," *Tetrahedron*, **2009**, 65(35), 7213-7219.

- 2. 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.
- 3. Stephen Rieth, **Zhiqing Yan**, Shijing Xia, Matthew Gardlik, Albert Chow, Gideon Fraenkel, Christopher M. Hadad, and Jovica D. Badjić "Molecular Encapsulation via Metalto-Ligand Coordination in a Cu(I) Folded Molecular Basket," *J. Org. Chem.*, **2008**, *73*(13), 5100-5109.
- 4. **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.
- 5. 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*.
- 6. **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.
- 8. 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.
- 9. Veselin Maslak, **Zhiqing Yan**, and Jovica D. Badjić, "Trifluorovinyllithium" In "Encyclopedia of Reagents for Organic Synthesis," John Wiley and Sons Ltd., UK, 2005.
- 10. **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.
- 11. **Zhiqing Yan** and John F. Sebastian, "Investigation into the mechanism of lithiation of 2,3-dihydrooxepin," *Tetrahedron*, **2004**, *60*, 10899-10906.
- 12. **Zhiqing Yan** and John F. Sebastian, "Density functional theory investigation of the deprotonation of oxete," *Tetrahedron Lett.*, **2002**, *43*(11), 8383-8386.
- 13. 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.

#### **Conference Presentations**

1. 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.

<sup>\*</sup>Undergraduate student co-author

- 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**

CHM2440 Organic Chemistry I

CHM2445 Organic Chemsitry 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**

#### **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)