

CURRICULUM VITAE

Zhiqing Yan, page 1

Work:

Department of Chemistry
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Education

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

Professional Experience

- 2013 – present Associate professor of Chemistry, Eastern Illinois University, Charleston, IL
2007 – 2013 Assistant professor of Chemistry, Eastern Illinois University, Charleston, IL
2004 – 2007 Post-Doctoral Researcher, Ohio State University, Columbus, OH
1999 – 2004 Part-time Graduate Teaching Assistant, Miami University, Oxford, OH
1996 – 1999 Research Assistant. Unilever Research in Shanghai Institute of Organic
Chemistry (URSIOC), Shanghai, China
1995 – 1996 Research Assistant. Shanghai Institute of Organic Chemistry (SIOC), Shanghai,
China

Courses Taught

CHM 1040 The World of Chemistry
CHM 1310 General Chemistry I
CHM 1315 General Chemistry Lab I
CHM 1410 General Chemistry II
CHM 2430 Survey of Organic Chemistry
CHM 2435 Survey of Organic Chemistry Lab
CHM 2440 Organic Chemistry I
CHM 2445 Organic Chemistry Lab I
CHM 2840 Organic Chemistry II
CHM 2845 Organic Chemistry Lab II
CHM 3000&3001, CHM 4000&4001 CHM 5000&5001 Chemistry Seminars
CHM 3100 Practicum in Chemistry
CHM 3500 & 5002 Introduction to Chemical Research and Graduate Chemical Research
CHM 4915 Advanced Laboratory
CHM 5003 Critical Reading of Chemical Literature
CHM 5050 Organic Chemistry for Natural Science Teachers
CHM 5420 Modern Organic Chemistry

Publications

1. Edward Treadwell, **Zhiqing Yan**, Xiao Xiao, "Epoxidation with possibilities: Discovering Stereochemistry in Organic Chemistry via Coupling Constants," *J. Chem. Ed.* **2017**, 94(5), 640-643.
2. **Zhiqing Yan**, Andrew J. Bolokowicz, Teage K. Collett, Sarah A. Reeb, Joshua D. Wiseman and Kraig A. Wheeler*, "Solid-state photodimerization reactions of racemic and homochiral phenylalanine sulfonamidecinnamic acids," *Cryst. Eng. Comm.* **2013**, 15, 27-30.
3. 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, 7213-7219.
4. 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.
5. 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, 5100-5109.
6. **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.
7. 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, 7270-7278.
8. **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, 2301-2304.
9. **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, 3697-3700.
10. 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.
11. Veselin Maslak, **Zhiqing Yan**, and Jovica D. Badjić, "Trifluorovinylolithium" In "Encyclopedia of Reagents for Organic Synthesis," John Wiley and Sons Ltd., UK, 2001.
12. **Zhiqing Yan** and John F. Sebastian, "Density functional study of the lithiation of cyclic vinyl ethers in solution," *Tetrahedron Lett.* **2004**, 45, 6551-6555.
13. **Zhiqing Yan** and John F. Sebastian, "Investigation into the mechanism of lithiation of 2,3-dihydrooxepin," *Tetrahedron* **2004**, 60, 10899-10906.
14. **Zhiqing Yan** and John F. Sebastian, "Density functional theory investigation of the deprotonation of oxete," *Tetrahedron Lett.* **2002**, 43, 8383-8386.
15. 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) (SO₃CF₃) and (Me-3[9]aneN(3)H)I,” *Chinese Journal of Structural Chemistry* **2000**, 19, 48-52.

Conference Presentations

1. #Vidula P. L. Widanelage, and **Zhiqing Yan**, “Developing a basket-shaped host molecule based on calix[4]arene featuring urea groups for volatile guest molecules”, the 257th ACS national meeting Orlando, FL, Apr. 3, 2019.
2. #Dinesh Balasooriya, #Yaxi Li, *Lourdes Vega-Castellvi, **Zhiqing Yan**, “Synthesis toward a molecular container based on p-tert-butylcalix[4]arene with gating features”, the 255th ACS national meeting New Orleans, Mar 20, 2018.
3. *Eric Brown, and **Zhiqing Yan**, “Formation of a trimeric calix[4]arene by self-assembling with a template”, ACS Joint great lakes central regional meeting Grand Rapids, May 27-30, 2015.
4. *Zachary. D. Price, *Tamara R. Bowen, and **Zhiqing Yan**, “Synthesis of "clip" molecules involving Diels-Alder reaction of dienes with electron-withdrawing/donating groups”, NCUR, University of Kentucky, Apr. 09-10, 2014.
5. *Michael J. Baumann, and **Zhiqing Yan**, “Synthesis toward a Molecular Basket”, 26th National Conference on Undergraduate Research, Weber State University, Ogden, UT, Mar. 29-31, 2012.
6. *Tamara R. Bowen, **Zhiqing Yan**, “Synthesis Toward Molecular Tweezers”, 46th Midwest & 39th Great Lakes Joint Regional ACS meeting, St. Louis, MO, Oct. 19, 2011.
7. Anupama Makineni, **Zhiqing Yan**, “Monofunctionalization of Diols for the Synthesis of Nano-Sized Molecular Containers”, 102nd Annual Meeting of Illinois State Academy of Science, Millikin University, Decatur, IL, April 9-10, 2010.
8. Pramodha S. Liyanage, *Matthew J. Payea, Gopal R. Periyannan, **Zhiqing Yan**, “Metabolomics of plant structural carbohydrate degradation by *Caulobacter crescentus*”, 239th National Meeting of the American Chemical Society, San Francisco, CA, March 21-25, 2010.
9. *Lisa Piazza, **Zhiqing Yan**, “Design and Synthesis of Supramolecular Host”, 23rd National Conference on Undergraduate Research, University of Wisconsin-La Crosse, La Crosse, WI, April 16-18, 2009.
10. 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,” 40th Central Regional Meeting, Columbus, OH, June 11–14, 2008.
11. **Zhiqing Yan**, Yuning Chang, *Dennis Mayo, Veselin Maslak, Shijing Xia, and Jovica D. Badjić, “Modulating conformational dynamics of a cavitand using an external stimulus,” 232nd ACS National Meeting, San Francisco, CA, September 10, 2006.
12. **Zhiqing Yan** and John F. Sebastian, “Lithiation of 3,4-dihydro-2H-pyran: a density functional theory study,” 38th National Organic Chemistry Symposium, Indiana University, Bloomington, IN, June 8, 2003.
13. **Zhiqing Yan** and John F. Sebastian, “Density functional theory investigation of deprotonation of 2,3-dihydrofuran,” 225th ACS National Meeting, New Orleans, LA, March 23, 2003.

*Undergraduate student co-author

#Graduate student co-author

Research Grants

The Open Project Program of Beijing Key Laboratory of Flavor Chemistry, Beijing Technology and Business University (BTBU), Beijing 100048, China, "Synthesis of Calixarene based molecular containers for sustained release of fragrance compounds," \$14,989, 01/01/2017-12/31/2018

Professional 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.

Committee Work @EIU

College of Science

Scholars in Undergraduate Research at Eastern (SURE) Awards

College of Science Curriculum Committee (COSCC)