



Curriculum Vita

Qianying Zhang

Instructor

Chemistry Department

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EDUCATION

2008,8-2010,8 Master degree in Chemistry department, Texas A&M University-Commerce, Commerce, TX

2000,9-2003,3 Master degree in Organic Chemistry, Department of Chemistry, Shanghai University, Shanghai, P. R. China

1996,9-2000,7 B.S. in Applied Chemistry, Department of Chemistry, Shanghai University, Shanghai, P. R. China

APPOINTMENT

2024,11-present Instructor, East Texas A&M University, Commerce, TX

2015,8-2024,11 Instructor, Texas A&M University-Commerce, Commerce, TX

2010,8-2015,7 Instructor/Lab coordinator, Texas A&M University-Commerce, Commerce, TX

2006,2-2008,2 Research technician at Department of Chemistry, Texas A&M University-Commerce, Commerce, TX

2003,4-2006,2 Scientist at Shanghai ChemExplorer Co.,Ltd (pharmaceutical research company of Eli Lilly company in China)

TEACHING EXPERIENCE

- (1) CHEM 1411/CHEM1311: General and quantitative chemistry I
- (2) CHEM 1412/CHEM1312: General and quantitative chemistry II
- (3) CHEM 1411L/CHEM1111L: General and quantitative chemistry Lab I
- (4) CHEM 1412L/CHEM1112L: General and quantitative chemistry Lab II
- (5) CHEM 211L: Organic chemistry Lab I
- (6) CHEM 212L: Organic chemistry Lab II
- (7) CHEM 201: Organic chemistry tutorial I
- (8) CHEM 101: General chemistry tutorial I
- (9) CHEM 102: General chemistry tutorial II
- (10)CHEM 202: Organic chemistry tutorial II
- (11)CHEM1105L:Survey of Gen. Chemistry Lab

RESEARCH EXPERIENCE

2008-2010 Master research with Professor Ben W. Jang

Chemistry Department, Texas A&M University-Commerce, Commerce, TX

(1) *Development of heterogeneous carbohydrate-based catalysts and their application for the biofuel synthesis from crops*

(2) *Development and implementation of GC and GC-MS methods for use in Biofuel purity assessment and qualitative analysis*

2006,2-2008,2 Research technician at Department of Chemistry, Texas A&M University-Commerce, Commerce, TX

(1) *Design and synthesis of pyrrolidine-based organophosphorus catalysts for the symmetric organic reactions (Michael addition and Aldol reaction)*

(2) *Design and synthesis of a class of ionic liquid-supported catalysts and their use as recyclable organocatalysts for the asymmetric Michael reactions*

(3) *Works with organic chemists and other team members to conduct various bench level experiments to provide analytical chemistry support*

(4) *Operates and maintains analytical instrumentation (IR, GC, GC-MS, and HPLC) to complete investigations*

2003,4-2006,2 Scientist at Shanghai ChemExplorer Co.,Ltd (pharmaceutical research company of Eli Lilly company in China)

(1) *Design and synthesis of active pharmaceutical ingredients (APIs) and drug intermediates*

2000,9-2003,3 Master research in Organic Chemistry with Professor Jiaqi Pu Department of Chemistry, Shanghai University, Shanghai, P. R. China

(1) *Preparation of D-and L-Penicillamine Using Aniline through resolution*

HONOUR AND REWARDS

2009, 4-2010,5 Jai & Susan Nagarkatti Chemistry Scholarship

2009,9-2010,8 S-Stem Scholarship

2009, 6-8 Welch Scholarship

2009, 1 Money for me Scholarship

2002.11 Second Grade Scholarship of Guanghua

2000.10 Excellent graduation thesis of Shanghai University (1999-2000)

2000.6 First Prize of graduation thesis in the sixth Shanghai high education academic conference

1998 -1999 Top Grade Scholarship

1997 - 1998 First Grade Scholarship

1996 - 1997 First Grade Scholarship

SPECIAL SKILLS

- Experience in the operation of FTIR, UV-vis, LC-MS, GC-MS, HPLC, and NMR analytical instrumentation and their data analysis.
- Knowledge of analytical instrumentation maintenance (FTIR, UV-vis, LC-MS, GC-MS, and HPLC)
- Knowledge of organic chemistry and organic synthesis
- Experience in Lab scale formulation design
- Experience in HPLC, TLC, and column chromatography separation techniques

- Strong analytical skills and the ability to work independently
- Good communication skills and the ability to interact collaboratively with all staff levels
- Efficient organizational and time management skills and the ability to multi-task in a fast paced environment
- Experience in data and statistical analysis and literature search for supporting documentation
- Experience in handling water sensitive reagents and chemicals.
- Computer skills (ChemDraw, SciFinder, MS Word, MS Excel)

LIST OF PUBLICATIONS

1. A Practical and Highly Efficient Hydroacylation Reaction of Aldehydes with Azodicarboxylates in Water
Qianying Zhang, Erica Parker, Allan D. Headley,* and Bokuo Ni* *Synlett*, **2010**, in press.
2. Highly Efficient Hydroacylation Reaction of Aldehydes with Azodicarboxylates in Ionic Liquid as Media
Bukuo Ni,* **Qianying Zhang**, and Allan D. Headley* *Advanced Synthesis & Catalysis*. **2009**, *351*, 875.
3. Ionic Liquid-Supported (ILS) (S)-Pyrrolidine Sulfonamide, a Recyclable Organocatalyst for the Highly Enantioselective Michael Addition to Nitroolefins
Bukuo Ni,* **Qianying Zhang**, Kritanjali Dhungana, and Allan D. Headley* *Org. Lett.* **2009**, *11*, 1037.
3. Asymmetric Michael Addition Reactions of Aldehydes with Nitrostyrenes Catalyzed by Functionalized Chiral Ionic Liquids
Qianying Zhang, Bokuo Ni,* and Allan D. Headley* *Tetrahedron* **2008**, *64*, 5091.
4. Pyrrolidine-Based Chiral Pyridinium Ionic Liquids (ILs) as Recyclable and Highly Efficient Organocatalysts for the Asymmetric Michael Addition Reactions.
Bukuo Ni, **Qianying Zhang**, and Allan D. Headley* *Tetrahedron Lett.* **2008**, *49*, 1249.
5. Functionalized Chiral Ionic Liquid as Recyclable Organocatalyst for Asymmetric Michael Addition to Nitrostyrenes.
Bukuo Ni, **Qianying Zhang**, and Allan D. Headley* *Green Chem.* **2007**, *9*, 737.
6. Highly Enantioselective Michael Addition of Ketones to Nitroolefins Catalyzed by (S)-Pyrrolidine Arenesulfonamide
Bukuo Ni, **Qianying Zhang**, and Allan D. Headley* *Tetrahedron: Asymmetry* **2007**, *18*, 1443.
7. Design and Synthesis of Novel Pyridinium Chiral Ionic Liquids Tethered to a Urea Functionality.
Bukuo Ni, **Qianying Zhang**, and Allan D. Headley* *J. Org. Chem.* **2006**, *71*, 9857.

PRESENTATIONS, COLLOQUIA, AND INVITED TALKS

1. **Qianying Zhang**, Nate Hanson, Ben Jang* 66th Southwest and 62nd Southeast Regional Meeting of the American Chemical Society, New Orleans, LA, United States, December 1-4, 2010.
2. Bokuo Ni,* **Qianying Zhang**, Kritanjali Dhungana, and Allan, D. Headley* 238th ACS National Meeting, Washington, DC. August 16-20, 2009.
3. Erica Parker, **Qianying, Zhang**, Satish Garre, Bokuo Ni,* Allan D. Headley* 64th SWR Meeting of the ACS, Little Rock, AR, United States, October 1-4, 2008.

4. **Bukuo Ni,* Qianying, Zhang; Satish, Garre; Allan D. Headley*** 64th SWR Meeting of the ACS, Little Rock, AR, United States, October 1-4, 2008
5. **Bukuo Ni, Qianying Zhang, and Allan D. Headley** 63rd SWR Meeting of the ACS, Lubbock, TX, United States, November 4-7, 2007.
6. **Qianying Zhang, Bukuo Ni, and Allan, D. Headley** 63rd SWR Meeting of the ACS, Lubbock, TX, United States, November 4-7, 2007.
7. **Bukuo Ni, Qianying Zhang, and Allan D. Headley** 62nd SWR Meeting of the ACS, Houston, TX, United States, October 19-22, 2006.