Curriculum Vita

Qianying Zhang Instructor/Lab coordinator Chemistry department

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| EDUCATION | | | | | | | |
|---------------|---|-------------|---------|------------|-------------|-------|-----------|
| 2008,8-2010,8 | Master | degree | in | Chemistry | department, | Texas | A&M |
| | University- | Commerce | , Con | nmerce, TX | | | |
| 2000,9-2003,3 | Master degree in Organic Chemistry, Department of Chemistry, Shanghai | | | | | | |
| | University, S | Shanghai, 1 | P. R. (| China | | | |
| 1996,9-2000,7 | B.S. in Applied Chemistry, Department of Chemistry, Shanghai University | | | | | | iversity, |
| | Shanghai, P | R. China | | | | | |
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APPOINTMENT

FDUCATION

| 2010,8-present | 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: General and quantitative chemistry I
- (2) CHEM 1412: General and quantitative chemistry II
- (3) CHEM 1411L: General and quantitative chemistry Lab I
- (4) CHEM 1412L: 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
- (8) CHEM 101: General chemistry tutorial I
- (9) CHEM 102: General chemistry tutorial II

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 Bukuo 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, Bukuo Ni,* and Allan D. Headley* Tetrahedron 2008, 64, 5091.
- 4. Pyrrolidine-Based Chiral Pyridinium Ionic Liquids (ILs) as Recyclable and HighlyEfficient 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. Bukuo 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, Bukuo 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.