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Appointment

August 2011- Assistant Professor & National Research Foundation Fellow
Department of Chemistry
National University of Singapore
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Education and Professional Experience

2008- 2011 Postdoctoral associate with Prof. Richard R. Schrock
Massachusetts Institute of Technology, Cambridge, MA, USA

2002- 2008 Ph.D. in Organic Chemistry with Prof. Marc L. Snapper & Prof. Amir H. Hoveyda
Boston College, Chestnut Hill, MA, USA

1998- 2002 B.S. in Chemistry with Prof. Limin Qi
Peking University, Beijing, P. R. China

Awards

- 2013 **Asian Core Program Lectureship Award** from China
- 2013 **Asian Core Program Lectureship Award** from Korea
- 2011-2016 **Singapore National Research Foundation Fellowship**, Singapore
- 2006-2007 **John LaMattina Graduate Student Fellowship**, Boston College
- 1998-1999 **Guanghua Scholarship**, Peking University

Publications

1. "Kinetic Resolution of 1,1'-Biaryl-2,2'-Diols and Amino Alcohols through NHC-Catalyzed Atroposelective Acylation," Lu, S.; Poh, S. B.; Zhao, Y. *Angew. Chem. Int. Ed.* **2014**, *accepted*.
2. "Highly Diastereo- and Enantioselective Ag-Catalyzed Double [3+2] Cyclization of α -Imino Esters with Isocyanoacetate," Shao, P.-L.; Liao, J.-Y.; Ho, Y. A.; Zhao, Y. *Angew. Chem. Int. Ed.* **2014**, *53*, 5435-5439.
3. "Enantioselective Oxidation of 1,2-Diols with Quinine-derived Urea Organocatalyst," Rong, Z.-Q.; Pan, H.-J.; Yan, H.-L.; Zhao, Y. *Org. Lett.* **2014**, *16*, 208-211.
4. "Catalytic Enantioselective Amination of Alcohols by the Use of Borrowing Hydrogen Methodology: Cooperative Catalysis by Iridium and a Chiral Phosphoric Acid," Zhang, Y.; Lim, C.-S.; Sim, D. S. B.; Pan, H.-J.; Zhao, Y. *Angew. Chem. Int. Ed.* **2014**, *53*, 1399-1403.
5. "Practical, Highly Stereoselective Allyl- and Crotylsilylation of Aldehydes Catalyzed by Readily Available Cinchona Alkaloid Amide," Huang, Y.; Yang, L.; Shao, P.; Zhao, Y.* *Chem. Sci.* **2013**, *4*, 3275-3281.

6. "Kinetic Resolution of 3-Hydroxy-3-Substituted Oxindoles through NHC-Catalyzed Oxidative Esterification," Lu, S.; Poh, S. B.; Siau, W.-Y.; Zhao, Y.* *Synlett*, **2013**, *24*, 1165-1169.
7. "Kinetic Resolution of Tertiary Alcohols: Highly Enantioselective Access to 3-Hydroxy-3-Substituted Oxindoles," Lu, S.; Poh, S. B.; Siau, W.-Y.; Zhao, Y.* *Angew. Chem., Int. Ed.* **2013**, *52*, 1731-1734.
8. "Stereoselective Synthesis of Z-Alkenes," Siau, W.-Y.; Zhang, Y.; Zhao, Y.* *Top. Curr. Chem.* **2012**, *327*, 33-58.

PhD and Postdoc Periods:

9. "Preparation of Highly Pure Disubstituted E Olefins through Mo-Catalyzed Z-Selective Ethenolysis of Stereoisomeric Mixtures," Marinescu, S. C.; Levine, D. S.; Zhao, Y.; Schrock, R. R.; Hoveyda, A. H. *J. Am. Chem. Soc.* **2011**, *133*, 11512-11514.
10. "Regiodivergent Reactions through Catalytic Enantioselective Silylation of Chiral Diols. Synthesis of Sapinofuranone A," Rodrigo, J.; Zhao, Y.; Hoveyda, A. H.; Snapper, M. L. *Org. Lett.* **2011**, *13*, 3778-3781.
11. "Endo-Selective Enyne Ring-Closing Metathesis Promoted by Stereogenic-at-W Mono-Pyrrolide Complexes," Zhao, Y.; Hoveyda, A. H.; Schrock, R. R. *Org. Lett.* **2011**, *13*, 784-787.
12. "Highly Z-Selective Metathesis Homocoupling of Terminal Olefins," Jiang, A. J.; Zhao, Y.; Hoveyda, A. H.; Schrock, R. R. *J. Am. Chem. Soc.* **2009**, *131*, 16630-16631.
13. "Kinetic Resolution of 1,2-Diols through Highly Site- and Enantioselective Catalytic Silylation," Zhao, Y.; Mitra, A. W.; Hoveyda, A. H.; Snapper, M. L. *Angew. Chem., Int. Ed.* **2007**, *44*, 8471-8474.
14. "Enantioselective Silyl Protection of Alcohols Catalysed by an Amino-Acid-Based Small Molecule," Zhao, Y.; Rodrigo, J.; Hoveyda, A. H.; Snapper, M. L. *Nature* **2006**, *443*, 67-70.
15. "Proline-Based N-Oxides as Readily Available and Modular Chiral Catalysts. Enantioselective Reactions of Allyltrichlorosilane with Aldehydes," Traverse, J. F.; Zhao, Y.; Hoveyda, A. H.; Snapper, M. L. *Org. Lett.* **2005**, *7*, 3151-3154.

Patents

1. "Highly Z-Selective Olefin Metathesis," Schrock, R. R.; Hoveyda, A. H.; Jiang, A. J.; Zhao, Y.; Flook, M. M. Publication **2011**, # US-2011-0077421-A1.
2. "Catalytic Enantioselective Silylations of Substrates," Snapper M. L.; Hoveyda A. H.; Rodrigo, J.; Zhao, Y. PCT Int. Appl. **2007**, # WO2007082026.