Curriculum Vitae

Zhen Zhang

Personal Details

Date of Birth: Apr. 4, 1986
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Education and Research Experience

10/2013-present, Postdoctoral Fellow

King Abdullah University of Science and Technology, Saudi Arabia with Prof. Nikos Hadjichristidis

09/2008-06/2013, Ph.D., Organic Chemistry

East China University of Science and Technology, Shanghai, China
(**02/2009-04/2013**, Cooperate researcher, State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, CAS)
Supervisor: Prof. Min Shi

- Ring-opening reactions of functionalized aziridines
- Transition metal-catalyzed intramolecular carbocyclization reactions
- Gold(I)-catalyzed reactions of indoles

09/2004-06/2008, Bachelor of Science, Applied Chemistry

Shanxi University, Taiyuan, China

Honors and Awards

- ✧ **2012** FMC Scholarship
- ✧ **2012** National Graduate Scholarship
- ✧ **2013** Excellent Graduate Student of Shanghai City

Publications

1. **Zhang, Z.**; Shi, M. "Gold(I)-Catalyzed Domino Reaction of Aziridinyl Alkynes," *Chem. Eur. J.* **2010**, *16*, 7725–7729.

2. **Zhang, Z.**; Shi, M. "Titanium(IV) Chloride-Mediated Carbocyclization of 1,6-Enynes: Selective Synthesis of 3-Azabicyclo[3.1.0]hexanes and Functionalized Allenes by Controlling the Reaction Temperature," *Eur. J. Org. Chem.* **2011**, 2610–2614.

3. **Zhang, Z.**; Shi, M. "Titanium(IV) Chloride-Mediated Intramolecular Ring Enlargement of Methylenecyc -lopropanes with Propargylic Esters: A Concise Synthesis of Bicyclo[4.2.0]oct-5-ene Derivatives," *Tetrahedron Lett.* **2011**, *52*, 6541–6544.

4. **Zhang, Z.**; Shi, M. "Silver(I)-Catalyzed Tandem 1,3-Acyloxy Migration/Mannich-type Addition/Elimination of the Sulfonyl Group of N-Sulfonylhydrazone-propargylic Esters to 5,6-Dihydropyridazin-4-one Derivatives, " *Chem. Eur. J.* **2012**, *18*, 3654–3658.

5. **Zhang, Z.**; Wei, Y.; Shi, M. "An Unprecedented Ring-Opening Reaction of *N*-(aziridin-2-ylmethylene)-hydrazines to Facile Synthesis of Functionalized Enamines Catalysed by Lewis Acid," *Chem. Commun.* **2012**, *48*, 5334–5336.

6. **Zhang, Z.**; Wei, Y.; Shi, M. "Facile Synthesis of 2-Pyrazolines and α, β-Diamino Ketones via Regioselective Ring-Opening of Hydrazone-Tethered Aziridines," *Chem. Commun.* **2012**, *48*, 9607–9609.

7. **Zhang, Z.**; Tang, X.; Xu, Q.; Shi, M. Gold-Catalyzed Cyclization of 1-(Indol-3-yl)-3-alkyn-1-ols: Facile Synthesis of Diversified Carbazoles. *Chem. Eur. J.* **2013**, *19*, 10625–10631.

8. **Zhang, Z.**; Shi, M. "e-EROS Encyclopedia of Reagents for Organic Synthesis- Benzylidenecyclopropane.'' DOI: 10.1002/047084289X.m01528.

9. Yang, J.-M.; Zhang, R.; Wang, W.; **Zhang, Z.**; Shi, M. "Axially Chiral *N*-Heterocyclic Carbene Gold(I) Complex Catalyzed Asymmetric Friedel-Crafts/Cyclization Reaction of Nitrogen-Tethered 1,6-Enynes with Indole Derivatives," *Tetrahedron: Asymmetry* **2011**, *22*, 2029–2038.

10. Chen, K.; Jiang, M.; **Zhang, Z.**; Wei, Y.; Shi, M. "Palladium(0)-Catalyzed Reaction of Cyclopropylidenecycloalkanes with Carbon Dioxide" *Eur. J. Org. Chem.* **2011**, 7189–7193.

11. Chen, K.; **Zhang, Z.**; Wei, Y.; Shi, M. "Thermally Induced [3+2] Cyclization of Aniline-Tethered Alkylidenecyclopropanes: A Facile Synthetic Protocol of Pyrrolo[1,2-a]indoles," *Chem. Commun.* **2012**, *48*, 7696–7698.

12. Zhang, D.-H.; **Zhang, Z.**; Shi, M. "Transition Metal-Catalyzed Carbocyclization of Nitrogen and Oxygen-Tethered 1,n-Enynes and Diynes: Synthesis of Five or Six-Membered Heterocyclic Compounds," *Chem. Commun.* **2012**, *48*, 10271–10279. (Feature Article)

13. Yang, J.-M.; **Zhang, Z.**; Wei, Y.; Shi, M. "Silver(I)-Catalyzed Tandem Reactions of *N*-Activated Aziridine-Propargylic Esters to Pyrrolidin-3-one Derivatives," *Tetrahedron Lett.* **2012**, *53*, 6173–6176.

14. Huang, L.; Yang, H.-B.; Zhang, D.-H.; **Zhang, Z.**; Xu, Q.; Shi, M. "Gold-Catalyzed Intramolecular Regio- and Enantioselective Cycloisomerization of 1,1-Bis(indolyl)-5-alkynes," *Angew. Chem. Int. Ed.* **2013**, 52, 6767–6771.

15. Yang, Y.-L.; **Zhang, Z.;** Zhang, X.-N.; Wang, D.; Wei, Y.; Shi, M. "Lewis Base-catalyzed Reactions of Cyclopropenones: Novel Synthesis of Mono- or Multi-substituted Allenic Esters," *Chem. Commun.* **2013**, DOI: 10.1039/C3CC46470A.