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# Curriculum Vitae

## Yu Jiang

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### Personal Information

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**Gender:** Male

**Date of Birth:** 10/09/1991

**Place of Birth:** Anhui province, China

**Nationality:** P. R. China

### Education

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- 2007.09 - 2011.06: AnHui University of Technology, Maanshan, Anhui province, P. R. China  
**Degree:** Bachelor of Engineering degree in Applied Chemistry
- 2011.09 – 2011.12: East China University of Science and Technology, Shanghai, P. R. China  
2012.01 – 2016.07: Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, P. R. China  
**Degree:** Doctor of Engineering degree in Applied Chemistry  
**Advisor:** Min Shi
- 2016.11 – present: King Abdullah University of Science and Technology (KAUST), Thuwal 23955-690, Kingdom of Saudi Arabia  
**Position:** Postdoctoral Fellow  
**Advisor:** Nikos Hadjichristidis

### Honors

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- High level paper award of ECUST, 2015
- HuaYi Corporation Scholarship, 2015

### Research Experience

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Mainly focus on the organic synthesis methodology (2011.09 – 2016.07)

- Developed a novel method to construct the asymmetric spirooxindole derivatives, revealed the potential useful biological activity by MTT assays.
- Developed a new selective gold(I)-catalyzed intramolecular hetero-cyclization of propargylic thiourea, revealed the competitive different gold activation modes in these cyclization processes by mechanistic investigation.
- Developed facile methods to synthesize a series of heteroatom substituted isoquinoline and tetrahydropyridine derivatives.

### Publications

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- **Jiang, Y.;** Pei, C.-K.; Du, D.; Li, X.-G.; He, Y.-N.; Xu, Q.\*; Shi, M.\* Enantioselective Synthesis of Spirooxindoles: Asymmetric [3+2] Cycloaddition of (3-Isothiocyanato)oxindoles with Azodicarboxylates. *Eur. J. Org. Chem.* **2013**, 7895-7901.

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- **Jiang, Y.;** Tang, X.-Y.\*; Shi, M.\* A Rh-catalyzed 1,2-Sulfur Migration/aza-Diels-Alder Cascade Initiated by Aza-vinyl Carbenoids from Sulfur-tethered *N*-Sulfonyl-1,2,3-triazoles. *Chem. Commun.* **2015**, *51*, 2122-2125.
  - **Jiang, Y.;** Wei, Y.; Tang, X.-Y.\*; Shi, M.\* Gold(I)-Catalyzed Selective Heterocyclization of Propargylic Thioureas: Mechanistic Study of Competitive Gold-Activation Mode. *Chem. Eur. J.* **2015**, *21*, 7675-7681.
  - **Jiang, Y.;** Sun, R.; Wang, Q.; Tang, X.-Y.\*; Shi, M.\* Cyclization of Sulfide, Ether or Tertiary Amine-Tethered *N*-Sulfonyl-1,2,3-Triazoles: A Facile Synthetic Protocol for 3-Substituted Isoquinolines or Dihydroisoquinolines. *Chem. Commun.* **2015**, *51*, 16968-16971.
  - **Jiang, Y.;** Sun, R.; Tang, X.-Y.\*; Shi, M.\* Recent Advances in the Synthesis of Heterocycles and Related Substances Based on Rhodium-Aza-Vinyl Carbenoid from *N*-Sulfonyl-1,2,3-triazoles. *Chem. Eur. J.* **2016**, *22*, DOI: 10.1002/chem.201601703.
  - **Jiang, Y.;** Wang, Q.; Sun, R.; Tang, X.-Y.\*; Shi, M.\* Base-induced Synthesis of *N*-Dialkylaminomethyl-2*H*-1,2,3-triazoles from *N*-Sulfonyl-1,2,3-triazoles. *Org. Chem. Front.* **2016**, *3*, 744-748.
  - Pei, C.-K.; **Jiang, Y.;** Wei, Y.\*; Shi, M.\* Enantioselective Synthesis of Highly Functionalized Phosphonate-Substituted Pyrans or Dihydropyrans Through Asymmetric [4+2] Cycloaddition of  $\beta,\gamma$ -Unsaturated  $\alpha$ -Ketoesters with Allenic Esters. *Angew. Chem. Int. Ed.* **2012**, *51*, 11328-11332.
  - Pei, C.-K.; **Jiang, Y.;** Shi, M.\* Synthesis of Optically Active Dihydropyrans from Asymmetric [4+2] Cycloaddition of  $\beta,\gamma$ -Unsaturated  $\alpha$ -Ketoesters with Allenic Esters. *Org. Biomol. Chem.* **2012**, *10*, 4355-4361.
  - Pei, C.-K.; **Jiang, Y.;** Shi, M.\* Phosphorus-Containing Lewis Base Catalyzed Cascade Reactions of Isatin-Derived Oximes with Allenic Esters and Further Transformations. *Eur. J. Org. Chem.* **2012**, 4026-4216.
  - Du, D.; **Jiang, Y.;** Xu, Q.\*; Shi, M.\* Enantioselective Construction of Spirooxindole Derivatives: Asymmetric [3+2] Cyclization of Isothiocyanatooxindoles with Allenic Esters or 2-Butynedioic Acid Diesters. *Adv. Synth. Catal.* **2013**, *355*, 2249-2256.
  - Du, D.; **Jiang, Y.;** Xu, Q.\*; Tang, X.-Y.; Shi, M.\* Enantioselective [3+2] Cyclization of 3-Isothiocyanato Oxindoles with Trifluoromethylated 2-Butenedioic Acid Diesters. *ChemCatChem* **2015**, *7*, 1366-1371.
  - Du, D.; **Jiang, Y.;** Xu, Q.\*; Tang, X.-Y.; Shi, M.\* Enantioselective Synthesis of Spirooxindole Enols: Regioselective and Asymmetric [3+2] Cyclization of 3-Isothiocyanato Oxindoles with Dibenzylidene Ketones. *ChemistryOpen* **2016**, *5*, 311-314.
  - Sun, R.; **Jiang, Y.;** Tang, X.-Y.\*; Shi, M.\* Rhodium(II)-Catalyzed and Thermally Induced Intramolecular Migration of *N*-Sulfonyl-1,2,3-triazoles: New Approaches to 1,2-Dihydroisoquinolines and 1-Indanones. *Chem. Eur. J.* **2016**, *22*, 5727-5733.
  - Liu, H.-L.; **Jiang, Y.;** Tang, X.-Y.\*; Shi, M.\* A New Method to Access Triazole-fused Spiro-guanidines from the Reaction of Isothiocyanates Tethered *N*-Sulfonyl-1,2,3-triazoles and Amines. *Org. Chem. Front.* **2016**, *3*, 1447-1451.
  - Wang, Q.; **Jiang, Y.;** Tang, X.-Y.\*; Shi, M.\* Gold-Catalyzed Fluorination-Hydration: Synthesis of *p*-Fluorobenzofuranones from 2-Alkynylphenol Derivatives. *Chem. Eur. J.* **2016**, *22*, 14739-14745.