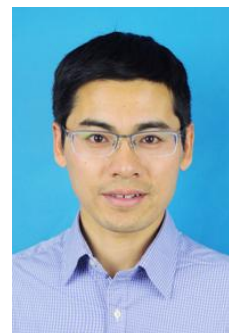


PERSONAL:

Name: Yingguang Zhu
Department: Department of Chemistry, College of Sciences
Gender: Male
Degree: Ph.D.
Title: Professor, Doctoral supervisor
Major: Organic Chemistry
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Research Field: Synthetic methodologies, Asymmetric catalysis, Metal catalysis, Synthesis and process of pharmaceuticals, Total synthesis of natural products and bioactive molecules
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**BRIEF INTRODUCTION:**

Yingguang Zhu is a Professor and doctoral supervisor. He obtained his Ph.D. degree in organic chemistry from East China Normal University in 2010 under the supervision of Professor Wenhao Hu. During his doctoral studies, he has carried out research work for one year at State Key Laboratory of Elemento-Organic Chemistry, Nankai University, as a visiting student under the supervision of Professor Qi-Lin Zhou. He conducted his postdoctoral research with Professor Yian Shi at Colorado State University from 2010 to 2014, and was promoted to Research Scientist II in the November of 2014. As the high-level talent, Prof. Zhu was introduced into the College of Sciences of Nanjing Agricultural University in the March of 2015. His main research areas include synthetic methodologies, asymmetric catalysis, and total synthesis of natural products and pharmaceuticals. During the past five years, he has published over twenty SCI papers (including 12 first-authored SCI papers, 2 first-authored papers with IF>20.0, 8 first-authored papers with IF>5.0, total IF ~120) with more than 400 citations in the international well-known journals. These journals included *Chem. Rev.*, *Acc. Chem. Res.*, *J. Am. Chem. Soc.*, *Angew. Chem. Int. Ed.*, *Chem. Commun.*, *Org. Lett.*, *Chem. Eur. J.*, etc. Moreover, he holds 3 granted patents and has participated in writing 1 monograph. Currently, he has undertaken the National Natural Science Foundation of China (NSFC), Natural Science Foundation of Jiangsu Province, the Scientific Research Startup Funds of NAU—for the Introduced Talents, and so on. He won the second class award of Natural Science Award of Ministry of Education (2011, ranking No. 8). He has been selected to be a scholar for the Jiangsu Province "333 High-level Talent Cultivation Program" for Young Science and Technology Leaders (2016).

ACADEMIC CAREER:

2015/03- Professor, doctoral supervisor, College of Sciences, Nanjing Agricultural University
2014/11-2015/02 Research Scientist II, Colorado State University, USA
2010/10-2014/10 Postdoctoral Fellow (with Professor Yian Shi), Colorado State University, USA
2005/07-2007/08 WuXi AppTech Company, Shanghai, CHINA

EDUCATION:

2007/09-2010/06 Ph.D. degree in Organic Chemistry, East China Normal University

- (under the supervision of Professor Wenhao Hu)
- 2009/02-2009/12 Visiting Student, State Key Laboratory of Elemento-Organic Chemistry, Nankai University (under the supervision of Professor Qi-Lin Zhou)
- 2002/09-2005/06 M.Sc. degree in Pharmaceutical synthesis, East China Normal University (under the supervision of Professor Liping Yang)
- 1998/09-2002/06 B.Sc. degree, Hunan University of Science and Technology, CHINA

PROJECTS UNDERTAKEN:

- (4) the National Natural Science Foundation of China (NSFC), 2016-2018
- (3) Natural Science Foundation of Jiangsu Province (grant No. BK20150652), 2015-2018
- (2) the Scientific Research Startup Funds of NAU—for the Introduced Talents, 2015-2020
- (1) the Fundamental Research Funds for the Central Universities (KJQN201629), 2016-2018

HONORS AND AWARDS:

- 2016, a scholar for the Jiangsu Province "333 High-level Talent Cultivation Program" for Young Science and Technology Leaders
- 2011, the second class award of Natural Science Award of Ministry of Education (ranking No. 8)

TEACHING INFORMATION:

- Specialized English for Chemistry, to undergraduate students at NAU
- Experimental Chemistry II, to undergraduate students at NAU

PUBLICATIONS:

- (18) **Yingguang Zhu**, Qian Wang, Richard G. Cornwall, Yian Shi*, "Organocatalytic Asymmetric Epoxidation and Aziridination of Olefins and Their Synthetic Applications", *Chem. Rev.* **2014**, *114*, 8199–8256. (SCI, IF = 45.661)
- (17) **Yingguang Zhu**, Richard G. Cornwall, Haifeng Du, Baoguo Zhao, Yian Shi*, "Catalytic Diamination of Olefins via N–N Bond Activation", *Acc. Chem. Res.* **2014**, *47*, 3665–3678. (SCI, IF = 24.348)
- (16) **Yingguang Zhu**, Changwei Zhai, Liping Yang, Wenhao Hu*, "Copper(II)-catalyzed highly diastereoselective three-component reactions of aryl diazoacetates with alcohols and chalcones: an easy access to furan derivatives", *Chem. Commun.* **2010**, *46*, 2865–2867. (SCI, IF = 6.718) (highlighted by *Synfacts* **2010**, 691)
- (15) **Yingguang Zhu**,[#] Tao Xiong,[#] Wenyong Han,[#] Yian Shi*, "Copper-Catalyzed Oxidative Homo- and Cross-Coupling of Grignard Reagents Using Diaziridinone", *Org. Lett.* **2014**, *16*, 6144–6147. (SCI, IF = 6.324)
- (14) **Yingguang Zhu**, Yian Shi*, "Cu(I)-Catalyzed Sequential Diamination and Dehydrogenation of Terminal Olefins: A Facile Approach to Imidazolinones", *Chem. Eur. J.* **2014**, *20*, 13901–13904. (SCI, IF = 5.696)
- (13) **Yingguang Zhu**, Changwei Zhai, Yongli Yue, Liping Yang, Wenhao Hu*, "One-pot three-component tandem reaction of diazo compounds with anilines and unsaturated ketoesters: a novel synthesis of 2,3-dihydropyrrole derivatives", *Chem. Commun.* **2009**, 1362–1364. (SCI, IF = 6.718)
- (12) **Yingguang Zhu**, Baoguo Zhao, Yian Shi*, "Highly Efficient Cu(I)-Catalyzed Oxidation of

- Alcohols to Ketones and Aldehydes with Diaziridinone”, *Org. Lett.* **2013**, *15*, 992–995. (SCI, IF = 6.324) (highlighted by *Synform* **2013**, A85–A86)
- (11) **Yingguang Zhu**, Yian Shi*, “Facile Cu(I)-Catalyzed Oxidative Coupling of Anilines to Azo Compounds and Hydrazines with Diaziridinone under Mild Conditions”, *Org. Lett.* **2013**, *15*, 1942–1945. (SCI, IF = 6.324)
- (10) **Yingguang Zhu**, Yian Shi*, “A facile copper(I)-catalyzed homocoupling of terminal alkynes to 1,3-diynes with diaziridinone under mild conditions”, *Org. Biomol. Chem.* **2013**, *11*, 7451–7454. (SCI, IF = 3.487)
- (9) **Yingguang Zhu**, Changwei Zhai, Liping Yang, Wenhao Hu*, “Highly Regioselective, Three-Component Reactions of Diazoacetates with Anilines and β,γ -Unsaturated α -Keto Esters: 1,2-Addition versus 1,4-Addition”, *Eur. J. Org. Chem.* **2011**, 1113–1124. (SCI, IF = 3.154)
- (8) **Yingguang Zhu**, Hongzhu Kan, Liqin Jiang, Wenhao Hu*, “Practical and Scalable Synthesis of Ethyl (*R*)-Piperidine-3-acetate”, *Synth. Commun.* **2012**, *42*, 1137–1145. (SCI, IF = 0.984)
- (7) **Yingguang Zhu**, Changwei Zhai, Wenhao Hu*, “Asymmetric Multicomponent Reactions”, *Progress in Chemistry* **2010**, *22*, 1380–1396. (SCI, IF = 0.714)
- (6) Huaiji Zheng, **Yingguang Zhu**, Yian Shi*, “Palladium(0)-Catalyzed Heck Reaction/C–H Activation/Amination Sequence with Diaziridinone: A Facile Approach to Indolines”, *Angew. Chem. Int. Ed.* **2014**, *53*, 11280–11284. (SCI, IF = 11.336)
- (5) Xingao Peng, **Yingguang Zhu**, Thomas A. Ramirez, Baoguo Zhao, Yian Shi*, “New Reactivity of Oxaziridine: Pd(II)-Catalyzed Aromatic C–H Ethoxycarbonylation via C–C Bond Cleavage”, *Org. Lett.* **2011**, *13*, 5244–5247. (SCI, IF = 6.324)
- (4) Thomas A. Ramirez, Qian Wang, **Yingguang Zhu**, Huaiji Zheng, Xingao Peng, Richard G. Cornwall, Yian Shi*, “Pd(0)-Catalyzed Sequential C–N Bond Formation via Allylic and Aromatic C–H Amination of α -Methylstyrenes with Diaziridinone”, *Org. Lett.* **2013**, *15*, 4210–4213. (SCI, IF = 6.324)
- (3) Jingjing Ji, Xia Zhang, **Yingguang Zhu**, Yu Qian, Jing Zhou, Liping Yang, Wenhao Hu*, “Diastereoselectivity Switch in Cooperatively Catalyzed Three-Component Reactions of an Aryldiazoacetate, an Alcohol, and a β,γ -Unsaturated α -Keto Ester”, *J. Org. Chem.* **2011**, *76*, 5821–5824. (SCI, IF = 4.638)
- (2) Xia Zhang, Jingjing Ji, **Yingguang Zhu**, Changcheng Jing, Ming Li, Wenhao Hu*, “A highly diastereoselective three-component tandem 1,4-conjugated addition–cyclization reaction to multisubstituted pyrrolidines”, *Org. Biomol. Chem.* **2012**, *10*, 2133–2138. (SCI, IF = 3.487)
- (1) Baoguo Zhao, Xingao Peng, **Yingguang Zhu**, Thomas A. Ramirez, Richard G. Cornwall, Yian Shi*, “Cu(I)-Catalyzed Diamination of Conjugated Dienes. Complementary Regioselectivity from Two Distinct Mechanistic Pathways Involving Cu(II) and Cu(III) Species”, *J. Am. Chem. Soc.* **2011**, *133*, 20890–20900. (SCI, IF = 11.444)