

## LIU Xin-Yuan (Tenured Full Professor in SUSTC)



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### • *Personal Details*

Name: Xin-Yuan Liu                      Date of Birth: Jan. 19, 1979  
Gender: Male                              Nationality: China  
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### • *Academic Experience*

Jan. 2018—Present                      Tenured Full Professor, Department of Chemistry  
Southern University of Science and Technology  
Sept. 2012—Dec. 2017                  Tenure-Track Associate Professor, Department of Chemistry  
Southern University of Science and Technology  
Apr. 2010—Aug. 2012                      Postdoctoral Fellow, the Scripps Research Institute and The  
University of Hong Kong with Prof. Dr. Carlos F. Barbas III and  
Prof. Dr. Chi-Ming Che  
Jul. 2004—Aug. 2005                      Research Assistant with Prof. Dr. Gang Zhao  
Shanghai Institute of Organic Chemistry, CAS

### • *Education Qualifications*

Sept. 2005—Mar. 2010                      PhD, Department of Chemistry with Prof. Dr. Chi-Ming Che,  
The University of Hong Kong  
Sept. 2001—Jun. 2004                      MSc, Shanghai Institute of Organic Chemistry, Chinese  
Academy of Sciences in Cooperation with Anhui Normal

University with Prof. Dr. Shizheng Zhu and Prof. Dr. Shaowu Wang  
Sept. 1997—Jun. 2001 BSc, Department of Chemistry, Anhui Normal University

- **Research Interests**

- ◆ Asymmetric radical chemistry
- ◆ Design and application of homogenous and heterogeneous catalysis
- ◆ Organofluorine chemistry

- **Honor and Award**

2017, Honored by National Excellent Young Scholar of China  
NSFC

2017, Honored by The Distinguished Lectureship Award  
The Chemical Society of Japan

2016, Honored by SUSTech Outstanding Researcher Awards  
Southern University of Science and Technology

2013, Honored by Peacock Rewarding Plan (Type B)  
Shenzhen Municipal Government

2011, Honored by Award for Outstanding Research Postgraduate Student  
The University of Hong Kong

**Publication list:**

1. Liu Ye, Qiang-Shuai Gu, Guo-Cong Chen, and **Xin-Yuan Liu\***, "Construction of Bicyclo[3.1.0]hexanes Containing Vicinal All-Carbon Quaternary Stereocenters via Radical Asymmetric Intramolecular  $\alpha$ -Cyclopropanation of Aldehydes" *Nat. Commun.* **2018**, *9*, 227.
2. Yu Tian, Su Chen, Qiang-Shuai Gu, Jin-Shun Lin, **Xin-Yuan Liu\***, "Amino- and azidotrifluoromethylations of alkenes." *Tetrahedron Lett.* **2018**, *59*, 203. ([Invited Digest](#))
3. Fu-Li Wang, Xiao-Yang Dong, Jin-Shun Lin, Yang Zeng, Guan-Yuan Jiao, Qiang-Shuai Gu, Xian-Qi Guo, and **Xin-Yuan Liu\***, "Catalytic Asymmetric Diamination of Unactivated Alkene with Dialkylaminyl Radical" *Chem* **2017**, *3*, 979.

4. Lei Li, Zhong-Liang Li, Qiang-Shuai Gu, Na Wang, **Xin-Yuan Liu,\*** "A Remote Radical Vinyl Migration Strategy to Access Medium- and Large-sized Cyclic Alkenes" *Sci. Adv.* **2017**, *3*, e1701487.
5. Lei Li, Liu Ye, Shao-Fei Ni, Zhong-Liang Li, Su Chen, Yi-Meng Du, Xiao-Hua Li, Li Dang\* and **Xin-Yuan Liu,\*** "Phosphine-catalyzed remote  $\alpha$ -C-H bond activation of alcohols or amines triggered by the radical trifluoromethylation of alkenes: reaction development and mechanistic insights" *Org. Chem. Front.* **2017**, *4*, 2139.
6. Xue-Fei Li, Jin-Shun Lin and **Xin-Yuan Liu,\*** "Catalytic Radical Intramolecular Aminoperfluoroalkylation and Aminodifluoromethylation of Unactivated Alkenes with Fluoroalkylsulfonyl Chlorides" *Synthesis* **2017**, *49*, 4213.  
[Published as part of the Special Topic Modern Cyclization Strategies in Synthesis](#)
7. Jin-Shun Lin, Fu-Li Wang, Xiao-Yang Dong, Wei-Wei He, Yue Yuan, Su Chen, and **Xin-Yuan Liu,\*** "Catalytic Asymmetric Radical Aminoperfluoroalkylation and Aminodifluoromethylation of Alkenes: A Versatile Platform for Enantioenriched-Fluoroalkyl Amines" *Nat. Commun.* **2017**, *8*, 14841.
8. Yong-Feng Cheng, Xiao-Yang Dong, Qiang-Shuai Gu, Zhang-Long Yu, and **Xin-Yuan Liu,\*** "Achiral Pyridine Ligand-Enabled Enantioselective Radical Oxytrifluoromethylation of Alkenes with Alcohols" *Angew. Chem., Int. Ed.* **2017**, *56*, 8883.  
[Selected as Cover pictures.](#)  
[Highlighted by Synfacts 2017, 13\(10\), 1042.](#)
9. Taotao Li, Peng Yu, Yi-Meng Du, Jin-Shun Lin, Yonggang Zhi,\* and **Xin-Yuan Liu,\*** "Dual-Catalyzed Enantioselective Remote C-H Functionalization Triggered by Radical Trifluoromethylation of Alkenes: Highly Selective Formation of C-CF<sub>3</sub> and C-C Bonds" *J. Fluorine Chem.* **2017**, *203*, 210. ([invited paper for a special issue](#)).
10. Lei Li, Qiang-Shuai Gu, Na Wang, Ping Song, Zhong-Liang Li, Xiao-Hua Li, Fu-Li Wang, and **Xin-Yuan Liu,\*** "1,2-Difunctionalization-Type

(Hetero)arylation of Unactivated Alkenes Triggered by Radical Addition/Remote (Hetero)aryl Migration" *Chem. Commun.* **2017**, 53, 4038.

11. Ping Song, Peng Yu, Jin-Shun Lin, Yiqun Li,\* Ning-Yuan Yang, and **Xin-Yuan Liu**,\* "Transition-Metal-Free  $\beta$ -C–H Bond Carbonylation of Enamides or Amides with a Trifluoromethyl Group as CO Surrogate for the Synthesis of 1,3-Oxazin-6-ones" *Org. Lett.* **2017**, 19, 1330.
12. Lei Li, Zhong-Liang Li, Fu-Li Wang, Zhen Guo, Yong-Feng Cheng, Na Wang, Chao Fang, Jingjiang Liu, Chunhui Hou, Bin Tan, and **Xin-Yuan Liu**,\* "Radical Aryl Migration Enables Diversity-Oriented Synthesis of Structurally Diverse Medium/Macro- or Bridged-Rings" *Nat. Commun.* **2016**, 7, 13852.
13. Zhong-Liang Li, Xiao-Hua Li, Na Wang, Ning-Yuan Yang, and **Xin-Yuan Liu**,\* "Radical-Mediated 1,2-Formyl/carbonyl-Functionalization of Alkenes and Application to Construction of Medium-Sized-, Fused-, and Bridged-Ring Systems" *Angew. Chem., Int. Ed.* **2016**, 55, 15100.
14. Jin-Shun Lin, Xiao-Yang Dong, Tao-Tao Li, Na-Chuan Jiang, Bin Tan, and **Xin-Yuan Liu**,\* "A Dual-Catalytic Strategy to Direct Asymmetric Radical Aminotrifluoromethylation of Alkenes" *J. Am. Chem. Soc.* **2016**, 138, 9357.  
[Highlighted by "Synfacts 2016, 1020"](#). [Highlighted by "Chin. J. Org. Chem. 2016, 36, 2247"](#).
15. Lin Huang, Liu Ye, Xiao-Hua Li, Zhong-Liang Li, Jin-Shun Lin, and **Xin-Yuan Liu**,\* "Stereoselective Radical Cyclization Cascades Triggered by Addition of Diverse Radicals to Alkynes to Construct 6(5) - 6 - 5 Fused Rings" *Org. Lett.*, **2016**, 18, 5284.
16. Na Wang, Lei Li, Zhong-Liang Li, Ning-Yuan Yang, Zhen Guo,\* Hong-Xia Zhang, and **Xin-Yuan Liu**,\* "Catalytic Diverse Radical-Mediated 1,2-Cyanofunctionalization of Unactivated Alkenes via Synergistic Remote Cyano Migration and Protected Strategies" *Org. Lett.*, **2016**, 18, 6026.
17. Ning-Yuan Yang, Zhong-Liang Li, Liu Ye, Bin Tan, and **Xin-Yuan Liu**,\* "Organic base-catalysed solvent-tuned chemoselective carbotrifluoromethylation

and oxytrifluoromethylation of unactivated alkenes" *Chem. Commun.*, **2016**, 52, 9052.

**From themed collection 2016 Emerging Investigators by Chem. Commun.**

18. Xiao-Long Yu, Liping Kuang, Su Chen, Xiao-Long Zhu, Zhong-Liang Li, Bin Tan, and **Xin-Yuan Liu**,\* "Counteranion-Controlled Unprecedented Diastereo- and Enantioselective Tandem Povarov Reaction for Construction of Bioactive Octahydro-dipyrroloquinolines" *ACS Catal.* **2016**, 6, 6182.
19. Na Wang, Sheng-Cai Zheng, Lin-Lin Zhang, Zhen Guo,\* and **Xin-Yuan Liu**\* "Nickel(0)-Catalyzed Denitrogenative Transannulation of Triazoles with Alkynes: Mechanistic Insights of Chemical Reactivity, Regio- and Enantioselectivity from Density Functional Theory and Experiment" *ACS Catal.* **2016**, 6, 3496.
20. Taotao Li, Peng Yu, Jin-Shun Lin, Yonggang Zhi,\* and **Xin-Yuan Liu**,\* "Copper-Catalyzed Redox-Triggered Remote C–H Functionalization: Highly Selective Formation of C–CF<sub>3</sub> and C–O Bonds" *Chin. J. Chem.* **2016**, 34, 490.

**Invited paper for the Special Issue of "Trifluoromethylation and Trifluoromethylthiolation Reactions"**

21. Can-Liang Ma, Xiao-Hua Li, Xiao-Long Yu, Xiao-Long Zhu, Yong-Zhou Hu, Xiao-Wu Dong,\* Bin Tan,\* and **Xin-Yuan Liu**,\* "Gold-catalyzed tandem synthesis of bioactive spiro-dipyrroloquinolines and its application in the one-step synthesis of incargranine B aglycone and seneciobipyrrolidine (I)" *Org. Chem. Front.* **2016**, 3, 324.

**From themed collection 2015 Emerging Investigators by OCF.**

22. Zhi-Jia Fang, Sheng-Cai Zheng, Zhen Guo, Jing-Yao Guo, Bin Tan,\* and **Xin-Yuan Liu**,\* "Asymmetric Synthesis of Axially Chiral Isoquinolones: Nickel-Catalyzed Denitrogenative Transannulation" *Angew. Chem., Int. Ed.* **2015**, 54, 9528.

Highlighted by "*Synfacts* **2015**, 11, 1029".

23. Jin-Shun Lin, Peng Yu, Lin Huang, Pan Zhang, Bin Tan,\* and **Xin-Yuan Liu**,\* "Brønsted Acid-Catalyzed Asymmetric Hydroamination of Alkenes: Synthesis of

Pyrrolidines Bearing a Tetrasubstituted Carbon Stereocenter" *Angew. Chem., Int. Ed.* **2015**, *54*, 7847.

Highlighted by "*Chin. J. Org. Chem.* **2015**, *35*, 1802".

- 24.** Peng Yu, Sheng-Cai Zheng, Ning-Yuan Yang, Bin Tan,\* and **Xin-Yuan Liu**,\* "Phosphine-Catalyzed Remote  $\beta$ -C-H Functionalization of Amine Triggered by Trifluoromethylation of Alkene: One-Pot Synthesis of Bistrifluoromethylated Enamides and Oxazoles" *Angew. Chem., Int. Ed.* **2015**, *54*, 4041.

Selected for a Cover Picture.

- 25.** Peng Yu, Jin-Shun Lin, Lei Li, Sheng-Cai Zheng, Ya-Ping Xiong, Li-Jiao Zhao, Bin Tan,\* and **Xin-Yuan Liu**,\* "Enantioselective C-H Bond Functionalization Triggered by Radical Trifluoromethylation of Unactivated Alkene" *Angew. Chem., Int. Ed.* **2014**, *53*, 11890.

Highlighted by "*Synfacts* **2014**, *10*, 1281". Highlighted by "*Angew. Chem., Int. Ed.* **2017**, *56*, 49".

- 26.** Ji-Wei Zhang, Jin-Hui Xu, Dao-Juan Cheng, Chuan Shi, **Xin-Yuan Liu**,\* and Bin Tan,\* "Discovery and Enantiocontrol of Axially Chiral Urazoles via Organocatalytic Tyrosine Click Reaction" *Nat. Commun.* **2016**, *7*, 10677.

- 27.** Jian Zhang, Shao-Xia Lin, Dao-Juan Cheng, **Xin-Yuan Liu**,\* and Bin Tan,\* "Phosphoric Acid-Catalyzed Asymmetric Classic Passerini Reaction" *J. Am. Chem. Soc.* **2015**, *137*, 14039.

Highlighted by "*Synfacts* **2016**, *12*, 86".

- 28.** Ye-Hui Chen, Dao-Juan Cheng, Jian Zhang, Yong Wang, **Xin-Yuan Liu**,\* Bin Tan,\* "Atroposelective Synthesis of Axially Chiral Biaryldiols via Organocatalytic Arylation of 2-Naphthols" *J. Am. Chem. Soc.* **2015**, *137*, 15062.

- 29.** Ming-Yue Wu, Wei-Wei He, **Xin-Yuan Liu**,\* and Bin Tan,\* "Asymmetric Construction of Spirooxindoles via Organocatalytic Multicomponent Reactions of Diazoindoles" *Angew. Chem., Int. Ed.* **2015**, *54*, 9409.

- 30.** Dao-Juan Cheng, Liang Yan, Shi-Kai Tian,\* Ming-Yue Wu, Lu-Xin Wang, Zi-Li Fan, Sheng-Cai Zheng, **Xin-Yuan Liu**,\* and Bin Tan,\* "Highly Enantioselective

Kinetic Resolution of Axially Chiral BINAM Derivatives Catalyzed by a Brønsted Acid" *Angew. Chem., Int. Ed.* **2014**, *53*, 3684.

Highlighted by "Synfacts **2014**, *10*, 530".

31. Lin Huang, Jin-Shun Lin, Bin Tan,\* **Xin-Yuan Liu**,\* "Alkene Trifluoromethylation-Initiated Remote  $\alpha$ -Azidation of Carbonyl Compounds toward Trifluoromethyl  $\gamma$ -Lactam and Spirobenzofuranone-lactam" *ACS Catal.* **2015**, *5*, 2826.
32. Lin Huang, Sheng-Cai Zheng, Bin Tan,\* **Xin-Yuan Liu**,\* "Metal-Free Direct 1,6- and 1,2-Difunctionalization Triggered by Radical Trifluoromethylation of Alkenes" *Org. Lett.* **2015**, *17*, 1589.
33. Lin Huang, Sheng-Cai Zheng, Bin Tan,\* **Xin-Yuan Liu**,\* "Trifluoromethylation-Initiated Remote Cross-Coupling of Carbonyl Compounds to Form Carbon–Heteroatom/Carbon Bonds" *Chem. Eur. J.* **2015**, *21*, 6718.
34. Can-Liang Ma, Xiao-Long Yu, Xiao-Long Zhu, Yong-Zhou Hu, Xiao-Wu Dong, Bin Tan,\* and **Xin-Yuan Liu**,\* "Platinum-Catalyzed Tandem Cyclization Reaction to Multiply Substituted Indolines under Microwave-Assisted Conditions" *Adv. Synth. Catal.* **2015**, *357*, 569.
35. Lei Li, Jing-Yao Guo, Xing-Guo Liu, Su Chen, Yong Wang, Bin Tan,\* and **Xin-Yuan Liu**,\* "Amide Groups Switch Selectivity: C–H Trifluoromethylation of  $\alpha,\beta$ -Unsaturated Amides and Subsequent Asymmetric Transformation" *Org. Lett.*, **2014**, *16*, 6032.
36. Jin-Shun Lin, Xiang-Geng Liu, Xiao-Long Zhu, Bin Tan,\* and **Xin-Yuan Liu**,\* "Copper-Catalyzed Aminotrifluoromethylation of Unactivated Alkenes with TMSCF<sub>3</sub>: Construction of Trifluoromethylated Azaheterocycles" *J. Org. Chem.* **2014**, *79*, 7084.
37. Xing-Li Zhu, Jin-Hui Xu, Dao-Juan Cheng, Li-Jiao Zhao, **Xin-Yuan Liu**,\* and Bin Tan,\* "In Situ Generation of Electrophilic Trifluoromethylthio Reagents for Enantioselective Trifluoromethylthiolation of Oxindoles" *Org. Lett.* **2014**, *16*, 2192.

Highlighted by "Synfacts **2014**, *10*, 754".

38. Ya-Ping Xiong, Ming-Yue Wu, Xiang-Yu Zhang, Can-Liang Ma, Lin Huang, Li-Jiao Zhao, Bin Tan,\* and **Xin-Yuan Liu,\*** "Direct Access to  $\alpha$ -CF<sub>3</sub>-enones via Efficient Copper-Catalyzed Trifluoromethylation of Meyer-Schuster Rearrangement" *Org. Lett.* **2014**, *16*, 1000.  
This work is highlighted on the website <http://www.organic-chemistry.org/abstracts/lit4/389.shtm>
39. Lei Li, Min Deng, Sheng-Cai Zheng, Ya-Ping Xiong, Bin Tan,\* and **Xin-Yuan Liu,\*** "Metal-Free Direct Intramolecular Carbotrifluoromethylation of Alkenes to Functionalized Trifluoromethyl Azaheterocycles" *Org. Lett.* **2014**, *16*, 504.
40. Jin-Shun Lin, Ya-Ping Xiong, Can-Liang Ma, Li-Jiao Zhao, Bin Tan,\* and **Xin-Yuan Liu,\*** "Efficient Copper-Catalyzed Direct Intramolecular Aminotrifluoromethylation of Unactivated Alkenes with Diverse Nitrogen-Based Nucleophiles" *Chem. Eur. J.* **2014**, *20*, 1332.
41. Tao Liu, Da-Qiang Li, Si-Yu Wang Yong-Zhou Hu, Xiao-Wu Dong,\* **Xin-Yuan Liu,\*** and Chi-Ming Che, "Straightforward Installation of Carbon-Halogen, Carbon-Oxygen and Carbon-Carbon Bonds within Metal–Organic Frameworks via Direct C–H Functionalization" *Chem. Commun.*, **2014**, *50*, 13261.  
Highlighted by "Synfacts **2014**, *10*, 1272".
42. Tao Liu, Jin-Xin Che, Yong-Zhou Hu, Xiao-Wu Dong,\* **Xin-Yuan Liu,\*** and Chi-Ming Che "Alkenyl/thiol-derived Metal–Organic Frameworks via Post-Synthetic Modification for Effective Mercury Adsorption" *Chem. Eur. J.* **2014**, *20*, 14090.
43. Xiao-Wu Dong, Tao Liu, Yong-Zhou Hu,\* **Xin-Yuan Liu,\*** and Chi-Ming Che "Urea Postmodified in Metal-Organic Framework as Catalytically Active Hydrogen-Bond-Donating Heterogeneous Catalyst" *Chem. Commun.*, **2013**, *49*, 7681.  
Highlighted with a front cover in *Chem. Commun.*;  
Selected as one of HOT *Chem. Comm.* articles for May;  
Highlighted by "Synfacts **2013**, *9*, 1251".



44. Gaosheng Yang,\* Chongrong Luo, Xiaolong Mu, Tingting Wang, and **Xin-Yuan Liu,\*** "Highly efficient enantioselective three-component synthesis of 2-amino-4H-chromenes catalysed by chiral tertiary amine-thioureas" *Chem. Commun.* **2012**, 48, 5880.

#### Graduate & Postdoctoral Publications

1. **Xin-Yuan Liu**, Ya-Ping Xiao, Fung-Ming Siu, Li-Chen Ni, Yong Chen, Lin Wang, and Chi-Ming Che,\* "Highly regio-, diastereo- and enantioselective one-pot gold/chiral Brønsted acid-catalysed cascade synthesis of bioactive diversely substituted tetrahydroquinolines" *Org. Biomol. Chem.* **2012**, 10, 7208.
2. **Xin-Yuan Liu**,[+] Zhen Guo,[+] Sijia Dong,[+] Xiao-Hua Li, and Chi-Ming Che,\* "Highly efficient and diastereoselective gold(I)-catalyzed synthesis of tertiary amines from secondary amines and alkynes: substrate scope and mechanistic insights" *Chem. Eur. J.* **2011**, 17, 12932. [+] denotes equal contribution
3. Ya-Ping Xiao,[+] **Xin-Yuan Liu**,[+] and Chi-Ming Che,\* "Efficient gold(I)-catalyzed direct intramolecular hydroalkylation of unactivated alkenes with simple  $\alpha$ -ketones" *Angew. Chem., Int. Ed.* **2011**, 50, 4937. [+] denotes equal contribution.
4. **Xin-Yuan Liu**, Chi-Ming Che\*, "Highly enantioselective synthesis of chiral secondary amines by gold(I)/chiral Brønsted acid-catalyzed tandem intermolecular hydroamination and transfer hydrogenation reactions" *Org. Lett.* **2009**, 11, 4204.  
[Highlighted by "Synfacts 2009, 1363"](#).
5. **Xin-Yuan Liu**, Chi-Ming Che,\* "Highly efficient and regioselective platinum(II)-catalyzed tandem synthesis of multiply substituted indolines and tetrahydroquinolines" *Angew. Chem., Int. Ed.* **2009**, 48, 2367.  
[Highlighted by "Synfacts 2009, 600"](#).
6. **Xin-Yuan Liu**, Chi-Ming Che,\* "A highly efficient and selective Au(I)-catalyzed tandem synthesis of diversely substituted pyrrolo[1,2- $\alpha$ ]quinolines in aqueous medium" *Angew. Chem., Int. Ed.* **2008**, 47, 3805.

7. **Xin-Yuan Liu**, Pan Ding, Jie-Sheng Huang, and Chi-Ming Che,\* "Synthesis of substituted 1,2-dihydroquinolines and quinolines from aromatic amines and alkynes by gold(I)-catalyzed tandem hydroamination-hydroarylation under microwave-assisted conditions" *Org. Lett.* **2007**, *9*, 2645.  
Selected on the ACS Publications website in 2009 as one of Top 20 most-cited articles published in the last three years.
8. **Xin-Yuan Liu**, Cheng-Hui Li, and Chi-Ming Che,\* "Phosphine gold(I)-catalyzed hydroamination of alkenes under thermal and microwave-assisted conditions" *Org. Lett.* **2006**, *8*, 2707.  
Featured on the ACS Publications website as one of "Organic Letters' Hot Papers" based on citation data obtained from Thomson ISI.  
Highlighted on the website <http://www.organic-chemistry.org/Highlights/2007/15August.shtm>
9. **Xinyuan Liu**, Yawen Li, Guangyin Wang, Zhuo Chai, Yongyong Wu, and Gang Zhao,\* "Effective and recyclable dendritic ligands for the enantioselective epoxidation of enones" *Tetrahedron: Asymmetry* **2006**, *17*, 750.
10. **Xin yuan Liu**, Xiao yu Wu, Zhuo Chai, Yong yong Wu, Gang Zhao,\* and Shi zheng Zhu,\* "Highly effective and recyclable dendritic ligands for the enantioselective aryl transfer reactions to aldehydes" *J. Org. Chem.* **2005**, *70*, 7432.
11. **Xinyuan Liu**, Jinwei Zhao, Guifang Jin, Gang Zhao,\* Shizheng Zhu,\* and Shaowu Wang,\* "An unexpected highly diastereoselective double Baylis-Hillman reaction of per- (or poly)fluorophenyl aromatic aldimines with methyl vinyl ketone" *Tetrahedron* **2005**, *61*, 3841.
12. **Xinyuan Liu**, Zhuo Chai, Gang Zhao,\* and Shizheng Zhu,\* "Aza-Morita-Baylis-Hillman reactions of N-(benzylidene)polyfluoroanilines with methyl acrylate and acrylonitrile" *J. Fluorine Chem.* **2005**, *126*, 1215.
13. **Xinyuan Liu**, Shizheng Zhu,\* and Shaowu Wang,\* "Zinc-mediated radical reactions of per- (or poly)fluorophenyl aromatic aldimines in aqueous media" *Synthesis* **2004**, 683.

14. Shizheng Zhu,\* **Xinyuan Liu**, and Shaowu Wang,\* "An efficient preparation of N-per-(or poly)fluorophenyl pyrroles and N-fluoroalkanesulfonyl pyrroles" *Tetrahedron* **2003**, *59*, 9669.  
Highlighted by "*Synfacts* **2014**, *10*, 1272".

## List of Invited lectures in Conferences and Top Universities

1. The 4<sup>th</sup> Lingnan Forum on Organic Chemistry, Nov. 15, 2014, Guangzhou, China, Invited Lecture
2. CCS-The 11<sup>th</sup> National Synthetic Organic Chemistry Symposium, Oct. 16-19, 2014, Shanghai, China, Invited Lecture
3. The 13th National Meeting of Fluorine Chemistry, Aug. 21-23, 2014, Shanghai, China, Invited Lecture
4. The 12<sup>th</sup> Jianghuai Forum on Organic Chemistry, Nov. 2, 2014, Wuhu, China, Invited Lecture
5. The 9th CCS National Organic Chemistry Conference, Jul. 28-31, 2015, Changchun, China, Invited Lecture
6. The 6th Korea-Japan-China Joint Seminar on Fluorine Chemistry, Sep. 7-9, 2016, Changwon, South Korea, Invited Lecture
7. Chiral China 2016, Sep. 18-21, 2016, Beijing, China, Invited Lecture
8. The 7th International Forum on Homogeneous Catalysis, Oct. 7-10, 2016, Hefei, China, Invited Lecture
9. The 12th International Symposium on Organic Free Radicals, Oct. 9-14, 2016, Shanghai, China, Invited Lecture
10. The 19th National Conference on Organometallic Chemistry of China, Oct. 28-31, 2016, Hangzhou, China, Invited Lecture
11. The 14th National Meeting of Fluorine Chemistry, Nov. 18-20, 2016, Fuzhou, China, Invited Lecture
12. The 97th Annual Meeting of the Chemical Society of Japan, Mar. 16-19, 2017, Yokohama, Japan, Invited Lecture (Receiving Lectureship Award)

13. New Frontiers in Homogeneous Catalysis, Jan. 11, 2017, Hong Kong, Invited Lecture
14. ACS meeting for Creative Work in Fluorine Chemistry symposium, Apr. 2–6, 2017, San Francisco, USA, Invited Lecture
15. Symposium on Frontiers of Synthetic Organic Chemistry, Apr. 28–30, 2017, Tianjin, China, Invited Lecture
16. The 8th Pacific Symposium on Radical Chemistry, Jul. 18–22, 2017, Brisbane, Australia, Invited Lecture
17. The Hong Kong-Shanghai-Munster Joint Trilateral Symposium on Organometallic Chemistry, June 7–9, 2017, Hong Kong, Invited Lecture
18. Fudan University, May 16-17, Invited Lecture
19. Shantou University, May 24, Invited Lecture
20. Lanzhou University, Apr. 12, Invited Lecture
21. Wuhan University, Apr. 20, Invited Lecture
22. Central China Normal University, Apr. 21, Invited Lecture