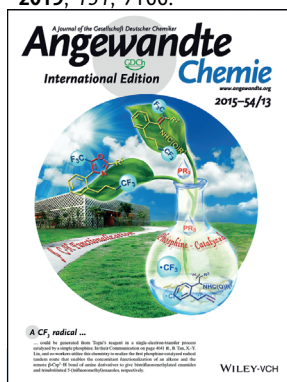




X.-Y. Liu

The author presented on this page has published more than **10 articles** in *Angewandte Chemie* in the last 10 years. Most recently: “Chiral Brønsted Acid Catalyzed Dynamic Kinetic Asymmetric Hydroamination of Racemic Allenes and Asymmetric Hydroamination of Dienes”: J.-S. Lin, T.-T. Li, G.-Y. Jiao, Q.-S. Gu, J.-T. Cheng, L. Lv, X.-Y. Liu, *Angew. Chem. Int. Ed.* **2019**, *58*, 7092; *Angew. Chem.* **2019**, *131*, 7166.



The work of X.-Y. Liu has been featured on the back cover of *Angewandte Chemie*: “Phosphine-Catalyzed Remote  $\beta$ -C–H Functionalization of Amines Triggered by Trifluoromethylation of Alkenes: One-Pot Synthesis of Bistrifluoromethylated Enamides and Oxazoles”: P. Yu, S.-C. Zheng, N.-Y. Yang, B. Tan, X.-Y. Liu, *Angew. Chem. Int. Ed.* **2015**, *54*, 4041; *Angew. Chem.* **2015**, *127*, 4113.

## Xin-Yuan Liu

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 2004 MS with Prof. Shaowu Wang and Prof. Shi-Zheng Zhu, Anhui Normal University and Shanghai Institute of Organic Chemistry  
 2010 PhD with Prof. Chi-Ming Che, The University of Hong Kong  
 2010–2012 Postdoctoral research with Prof. Chi-Ming Che and Prof. Carlos F. Barbas III, The University of Hong Kong and The Scripps Research Institute  
**Awards:** **2017** National Excellent Young Scholar of China (NSFC); **2017** Changjiang Scholar Program—Youth Project (Ministry of Education); **2017** Distinguished Lectureship Award (Chemical Society of Japan)  
**Research:** Transition-metal catalysis, asymmetric catalysis, radical chemistry, organofluorine chemistry  
**Hobbies:** Badminton, basketball, music

**My biggest motivation is** to realize creative and innovative research, to make “impossible” chemistry possible, and to benefit the world with knowledge.

**My worst nightmare is** receiving manuscript rejection emails.

**My favorite saying is** “no pain, no gain”.

**My most exciting discovery to date has been** a series of  $\text{Cu}^{\text{I}}$ /chiral anion complexes as single-electron-transfer catalysts for asymmetric radical transformations via different reaction pathways.

**I like refereeing because** it shows your knowledge and your respects of others.

**What I look for first in a publication is** the challenge that it has overcome.

**The biggest problem that scientists face is** to focus on research among various distractions.

**The best advice I have ever been given is** not to waste time in buying stocks.

**I celebrate success by** eating delicious Chinese food with beers.

**When I’m frustrated, I talk to** my wife and friends.

**If I won the lottery, I would** travel around the world with my family.

**The most important thing I learned from my parents is** integrity, goodness, diligence, and courage.

**If I were not a scientist, I would be** a teacher in middle school.

### My 5 top papers:

- “Enantioselective C–H Bond Functionalization Triggered by Radical Trifluoromethylation of Unactivated Alkene”: P. Yu, J.-S. Lin, L. Li, S.-C. Zheng, Y.-P. Xiong, L.-J. Zhao, B. Tan, X.-Y. Liu, *Angew. Chem. Int. Ed.* **2014**, *53*, 11890; *Angew. Chem.* **2014**, *126*, 12084. (Cu/chiral phosphoric acid as a robust cooperative catalyst system for radical-initiated asymmetric C(sp<sup>3</sup>)-H functionalization.)
- “A Dual-Catalytic Strategy to Direct Asymmetric Radical Aminotrifluoromethylation of Alkenes”: J.-S. Lin, X.-Y. Dong, T.-T. Li, N.-C. Jiang, B. Tan, X.-Y. Liu, *J. Am. Chem. Soc.* **2016**, *138*, 9357. ( $\text{Cu}^{\text{I}}$ /chiral phosphate as an excellent single-electron-transfer dual catalyst for asymmetric radical transformations.)
- “Achiral Pyridine Ligand-Enabled Enantioselective Radical Oxytrifluoromethylation of Alkenes with Alcohols”: Y.-F. Cheng, X.-Y. Dong, Q.-S. Gu, Z.-L. Yu, X.-Y. Liu, *Angew. Chem. Int. Ed.* **2017**, *56*, 8883; *Angew. Chem.* **2017**, *129*, 9009. (An achiral Lewis base ligand helped to stabilize highly reactive copper species for superior enantiocontrol.)
- “A Copper Catalyst with a Cinchona-Alkaloid-Based Sulfonamide Ligand for Asymmetric Radical Oxytrifluoromethylation of Alkenyl Oximes”: X.-T. Li, Q.-S. Gu, X.-Y. Dong, X. Meng, X.-Y. Liu, *Angew. Chem. Int. Ed.* **2018**, *57*, 7668; *Angew. Chem.* **2018**, *130*, 7794. (A single-electron-transfer catalyst system composed of  $\text{Cu}^{\text{I}}$  and an anionic-neutral hybrid ligand for highly enantioselective radical-initiated transformations.)
- “Cu/Chiral Phosphoric Acid-Catalyzed Asymmetric Three-Component Radical-Initiated 1,2-Dicarbonylation of Alkenes”: J.-S. Lin, T.-T. Li, J.-R. Liu, G.-Y. Jiao, Q.-S. Gu, J.-T. Cheng, Y.-L. Guo, X. Hong, X.-Y. Liu, *J. Am. Chem. Soc.* **2019**, *141*, 1074. (Asymmetric ion-pairing catalysis for highly enantioselective radical-initiated transformations.)

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## Author Profile



“My biggest motivation is to realize creative and innovative research, to make ‘impossible’ chemistry possible, and to benefit the world with knowledge. My worst nightmare is receiving manuscript rejection emails ...”

Find out more about Xin-Yuan Liu in his Author Profile.