

Pengfei Hu

Curriculum Vitae

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Professional Experience

Current Appointment: Westlake University
School of Science, Department of Chemistry
600 Dunyu Road, Xihu District
Hangzhou, Zhejiang Province, 310030, China

Assistant Professor of Chemistry, April 2021 – present

Education and Work Experience

Sep 2019 – Mar 2021 Postdoc Fellow
Advisor: Professor Phil S. Baran
Scripps Research, La Jolla, California

Aug 2014 – Aug 2019 Ph.D. in Chemistry
Advisor: Professor Scott A. Snyder
The University of Chicago, Chicago, Illinois
The Scripps Research Institute Florida Campus, Jupiter, Florida

Aug 2011 – Jun 2014 M.S. in Organic Chemistry
Advisor: Professor Xiaofeng Tong
East China University of Science and Technology, Shanghai

Sep 2007 – Jun 2011 B.E. in Applied Chemistry
Advisor: Professor Meixin Zhao
East China University of Science and Technology, Shanghai

Awards

- National Organic Conference Oral Presentation Award (2025)
- Chinese Chemical Society The 12th Natural Product Synthesis Forum Young Investigator Award (2025)
- 23rd International Conference on Organic Synthesis Oral Speaker Award (2023)
- Hewitt Foundation Fellowship for Medical Research (2020)
- Chinese Government Award for Outstanding Self-financed Students Abroad (2020)
- Elizabeth R. Norton Prize for Excellence in Research in Chemistry (2019)
- Bristol-Myers Squibb Graduate Fellowship in Synthetic Organic Chemistry (2018)
- William Rainey Harper Dissertation Fellowship (2018)

- Morris Selig Kharasch Lecture Graduate Fellowship (2018)
- Chancellor Siwei Cheng's Award, ECUST (2014)
- National Scholarship for Outstanding Graduate Students of China (2013)
- First Prize in the Annual Research Symposium, ECUST (2013)
- Outstanding Student in the First National Summer School on Chirality (2012)
- East China University of Science and Technology scholarship (2011)

Publications

1. Chen Peng, Weilin Wu, Yuxuan Ye*, **Pengfei Hu***. 16-Step Scalable Chemoenzymatic Synthesis of Tetrodotoxin. *J. Am. Chem. Soc.* **2026 Submitted**.
2. Shuaifeng Wang, Kang Shen, Tao Zhu, **Pengfei Hu***. Concise, Enantioselective and Convergent Syntheses of Fortunefuroic Acid F and Related Abies Triterpenoids. *CCS Chem.* **2025** Ahead of Print. doi: 10.31635/ccschem.025.202506473.
3. Kang Shen, Qiyang Wang, Tao Zhu, Yiyang Qiao, **Pengfei Hu***. A Concise Total Synthesis of Glycinoeclepin A. *J. Am. Chem. Soc.* **2025**, *147*, 23411.
4. Chen Peng, Quanping Guo, Guo-Xiong Xu, Luqiong Huo, Weilin Wu, Tian-Yi Chen, Xin Hong*, **Pengfei Hu***. Divergent Synthesis of Scabrolide A and Havellockate via an *exo-exo-endo* Radical Cascade. *J. Am. Chem. Soc.* **2024**, *146*, 14422.
5. Quanping Guo, Yangye Jiang, Rongjin Zhu, Wenhui Yang, **Pengfei Hu***. Electrochemical Azo-free Mitsunobu-type Reaction. *Angew. Chem. Int. Ed.* **2024**, *63*, e202402878.
6. **Pengfei Hu**, Byron Peters, Christian A. Malapit, Julien C. Vantourout, Pan Wang, Jinjun Li, Lucas Mele, Pierre-Georges Echeverria, Shelley D. Minter, Phil S. Baran. Electroreductive Olefin Ketone Coupling. *J. Am. Chem. Soc.* **2020**, *142*, 20979.
7. Hyung Min Chi, Charles Cole, **Pengfei Hu**, Cooper A. Taylor, Scott A. Snyder. Total Synthesis of Spiroviolene and Spirograterpene A: a Structural Reassignment with Biosynthetic Implications. *Chem. Sci.* **2020**, *11*, 10939.
8. **Pengfei Hu**, Hyung Min Chi, Kenneth C. DeBacker, Xu Gong, Jonathan H. Keim, Ian Tingyung Hsu, Scott A. Snyder. Quaternary Center-Guided Synthesis of Complex Polycyclic Terpenes. *Nature* **2019**, *569*, 703.
9. Heng Yi, **Pengfei Hu**, Scott A. Snyder. Development and Elucidation of a Pd-based Cyclization/Oxygenation Sequence for Natural Product Synthesis. *Angew. Chem. Int. Ed.* **2020**, *59*, 2674.
10. **Pengfei Hu**, Scott A. Snyder. Enantiospecific Total Synthesis of the Highly Strained (–)-Presilphiperfolan-8-ol via a Pd-Catalyzed Tandem Cyclization. *J. Am. Chem. Soc.* **2017**, *139*, 5007.
11. Yiting Gu, **Pengfei Hu**, Chunjie Ni, Xiaofeng Tong. Phosphine-Catalyzed Addition/Cycloaddition Domino Reactions of β' -Acetoxy Allenolate: Highly Stereoselective Access to 2-Oxabicyclo[3.3.1]nonane and Cyclopenta[a]pyrrolizine. *J. Am. Chem. Soc.* **2015**, *137*, 6400.
12. Yiting Gu, Falin Li, **Pengfei Hu**, Daohua Liao, Xiaofeng Tong. Tertiary Amine-Catalyzed (4 + 2) Annulations of δ -Acetoxy Allenolates: Synthesis of Multisubstituted 4*H*-Pyran and 4*H*-Chromene. *Org. Lett.* **2015**, *17*, 1106.
13. Wei Dong, **Pengfei Hu**, Jian Hu, Xiaofeng Tong. Lewis Base-Catalyzed Divergent

Isomerizations of 5-Hydroxy-2,3-dienoate. *Tetrahedron Lett.* **2014**, 55, 1682.

14. **Pengfei Hu**, Jian Hu, Jiajun Jiao, Xiaofeng Tong. Amine-Promoted Asymmetric (4 + 2) Annulations for the Enantioselective Synthesis of Tetrahydropyridines: A Traceless and Recoverable Auxiliary Strategy. *Angew. Chem. Int. Ed.* **2013**, 52, 5319.

Invited Lectures and Research Presentation

1. Chinese Academic of Science Hangzhou Institute for Advanced Study, Hangzhou, China (2026)
2. The 2nd National Energy Chemistry Academic Conference, Shanghai, China (2025)
3. Wuxi STA Invited Lecture, Changzhou, China (2025)
4. Nankai–Westlake University Bilateral Forum, Tianjin, China (2025)
5. Gordon Conference Natural Products and Bioactive Compounds, Andover, USA (2025)
6. The 17th International Symposium for Chinese Organic Chemists, Hong Kong (2025)
7. The 13th National Organic Conference, Lanzhou, China (2025)
8. The 20th International Symposium on Relations Between Homogeneous and Heterogeneous Catalysis, Hangzhou, China (2025)
9. Chinese Chemical Society the 12th Young Investigator Symposium on Natural Product Synthesis, Guiyang, China (2025)
10. Hainan Organic Chemistry Outlooks, Haikou, China (2024)
11. The 12th Singapore International Chemistry Conference, Singapore (2024)
12. The 4th International Symposium on Natural Product Synthesis and Process Methods for Drug Manufacturing, Shanghai, China (2024)
13. Fudan–Westlake University Bilateral Forum, Hangzhou, China (2024)
14. Chinese Chemical Society the 11th Young Investigator Symposium on Natural Product Synthesis, Wuhan, China (2024)
15. Chinese Chemical Society the 1st Young Investigator Symposium on Electrosynthesis, Shanghai, China (2024)
16. Chinese Chemical Society the 9th Young Investigator Symposium on Natural Product Synthesis, Xi'an, China (2022)
17. Lanzhou University Invited Lecture, Lanzhou, China (2021)
18. ACS National Meeting, San Diego, USA (2019)
19. Bristol-Myers Squibb Symposium, Lawrenceville, NJ, USA (2018)