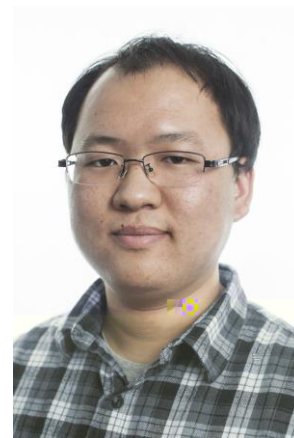


Zhongxing Huang



Positions

- 2019-current **Assistant Professor, University of Hong Kong**
2017-2019 **Postdoctoral Fellow, Stanford University**
Advisor: Professor Barry M. Trost

Education

- 2012-2017 **Ph.D. in Chemistry, University of Chicago**
Advisor: Professor Guangbin Dong
2008-2012 **B.S. in Chemistry, Peking University**
Advisor: Professor Jianbo Wang and Professor Yan Zhang

Awards and Honors

1. Thieme Chemistry Journals Award (2023)
2. Research Output Prize (HKU, 2022)
3. Asian Core Program Lectureship Award (to Korea and Taiwan, 2022)
4. Chinese Government Award for Outstanding Self-Financed Students Abroad (2015)
5. International Precious Metals Institute (IPMI) Elemental graduate student award (2015)
6. BaoSteel Scholarship, Peking University (2010)

Publications

Independent research:

1. Liu, Haichao; Lau, H. M.; Xu, P.; Chan, T. H.; **Huang, Z.***, Modular and Diverse -Tertiary Amines and Tertiary Alcohols via Desymmetric Reduction of Malonic Esters , *Nat. Commun.* **2022**, *13*, 4759.
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2. Xu, Pan; Shen, C.; Xu, A.; Low, K.-H.; **Huang, Z.***, Desymmetric Cyanosilylation of Acyclic 1,3-Diketones , *Angew. Chem. Int. Ed.* **2022**, *61*, e202208443.
 - Highlighted in Angewandte Chemie Author Profile, *Angew. Chem. Int. Ed.* **2022**, *61*, e202212025.
3. Xu, Pengwei; Liu, S.; **Huang, Z.***, Desymmetric Partial Reduction of Malonic Esters , *J. Am. Chem. Soc.* **2022**, *144*, 6918-6927.
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 - Highlighted by S. Chakrabarty in JACS Spotlights, **2022**, *144*, 6623-6624.
4. Zheng, Yin; Zhang, S.; Low, K.-H.; Zi, W.; **Huang, Z.***, A Unified and Desymmetric Approach to Chiral Tertiary Alkyl Halides , *J. Am. Chem. Soc.* **2022**, *144*, 1951-1961.
 - Highlighted by M. Oestreich, H. F. T. Klare, and N. Kranidiotis-Hisatomi in *Synfacts*, **2022**, *18*, 0518.
5. Xu, Pan; **Huang, Z.***, Sewing Molecules Together with Light *Trends Chem.* **2022**, *4*, 169-171 (invited highlight).
6. Xu, Pengwei; **Huang, Z.***, Catalytic Reductive Desymmetrization of Malonic Esters , *Nat. Chem.* **2021**, *13*, 634.
 - Highlighted by J. Gajewy and M. Kwit in *Nat. Chem.* **2021**, *13*, 623-624, The gains from breaking symmetry
 - Highlighted by L. Boerner in *C&EN News*, Reduction carves path to chiral compounds
 - Highlighted by G. R. Stephenson in *Chemistry&Industry*.
 - Featured in *Organic Chemistry Portal*.

Supervised research:

7. Trost, B. M.*; Wang, Y.; Buckl, A. K.; **Huang, Z.**; Nguyen, M. H.; Kuzmina, O., Total Synthesis of Bryostatin 3 *Science* **2020**, 368, 1007.
8. Trost, B. M.*; **Huang, Z.**, Catalytic (3+2) Palladium-Aminoallyl Cycloaddition with Conjugated Dienes *Angew. Chem. Int. Ed.* **2019**, 58, 6396.
9. Trost, B. M.*; **Huang, Z.**; Murhade, G. M., Catalytic Palladium-Oxyallyl Cycloaddition *Science* **2018**, 362, 564.
10. **Huang, Z.**; Dong, G.* Palladium-Catalyzed Redox Cascade for Direct α -Arylation of Ketones *Tetrahedron* **2018**, 74, 3253.
11. Zhu, Z.; Li, X.; Chen, S.; Chen, P.; Billett, B.; **Huang, Z.**; Dong, G.* Cobalt-Catalyzed Intramolecular Alkyne/Benzocyclobutenone Coupling: C–C Bond Cleavage via a Tetrahedral Dicobalt Intermediate *ACS Catal.* **2018**, 8, 845.
12. **Huang, Z.**; Dong, G.* Site-Selectivity Control in Organic Reactions: A Quest to Differentiate Reactivity among the Same Kind of Functional Groups *Acc. Chem. Res.* **2017**, 50, 465 (Invited commentary).
13. **Huang, Z.**; Wang, C.; Dong, G.*, A Hydrazone-Based Direct α -Arylation of Ketones
Angew. Chem. Int. Ed. **2016**, 55, 5209.
• Highlighted by *Organic Chemistry Portal*, Jan. 2017
14. Xu, Y.; Su, T.; **Huang, Z.**; Dong, G.* Practical Direct α -Arylation of Simple Cyclopentanones via Palladium-Enamine
Angew. Chem. Int. Ed. **2016**, 55, 2559.
15. **Huang, Z.**; Lim, H. N.; Mo, F.; Young, M.; Dong, G.*, Transition Metal-Catalyzed Ketone-Functionalization *Chem. Soc. Rev.*, **2015**, 44, 7764 (invited review).
16. **Huang, Z.**; Sam, Q. P.; Dong, G.*, Palladium-Catalyzed α -Arylation of Ketones with Diaryliodonium Salts: a Stoichiometric Heavy Metal-Free and User-Friendly Approach *Chem. Sci.* **2015**, 6, 5491.
17. **Huang, Z.**; Dong, G.*, Direct α -Arylation of Ketones with Diaryliodonium Salts: a Stoichiometric Heavy Metal-Free and User-Friendly Approach
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18. **Huang, Z.**; Dong, G.*, Direct α -Arylation of Ketones with Diaryliodonium Salts: a Stoichiometric Heavy Metal-Free and User-Friendly Approach
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19. **Huang, Z.**; Yang, Y.; Xiao, Q.; Zhang, Y.; Wang, J.*, Auto-Tandem Catalysis: Synthesis of Acridines by Pd-Catalyzed C=C Bond Formation and C(sp²)–N Cross-Coupling
Eur. J. Org. Chem. **2012**, 6586.
20. Xia, Y.; Qu, S.; Xiao, Q.; Wang, Z.; Qu, P.; Chen, L.; Liu, Z.; Tian, L.; **Huang, Z.**; Zhang, Y.; Wang, J.*, Pd-Catalyzed Carbene Migratory Insertion Using Conjugated Ene-Yne
J. Am. Chem. Soc. **2013**, 135, 13502.
21. Li, Y.; **Huang, Z.**; Xu, P.; Zhang, Y.*; Wang, J.*, Direct α -Arylation of Ketones with Diaryliodonium Salts: a Stoichiometric Heavy Metal-Free and User-Friendly Approach
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