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Education

2004-2008 Ph.D. in Organic Chemistry, the University of Chicago
(Advisor: Prof. Sergey A. Kozmin)
2001-2004 M.S. in Organic Chemistry, Nanjing University
(Advisor: Prof. Yuefei Hu)
1997-2001 B.S. in Chemistry, Nanjing University

Professional Experience

- 2019/7-present Professor, Department of Chemistry
The Hong Kong University of Science and Technology
- 2015/7-2019/6 Associate Professor, Department of Chemistry
The Hong Kong University of Science and Technology
- 2010/8-2015/6 Assistant Professor, Department of Chemistry
The Hong Kong University of Science and Technology
- 2008/10-2010/7 Postdoctoral Fellow, Department of Chemistry
Massachusetts Institute of Technology (Advisor: Prof. Gregory Fu)

Honors

2022 Member of the Chiral Chemistry Committee, Chinese Chemical Society
2022 Senior Member, Chinese Chemical Society
2021 Fellow of the Royal Society of Chemistry
2020 UROP Faculty Research Award, HKUST
2019 Elected Member, The Hong Kong Young Academy of Sciences (YASHK)
2019 ACP Lectureship Award (by Taiwan)
2018 NHU-CJC Innovation Award, *Chinese Journal of Chemistry*
2017 Asian Core Program Lectureship Award (by Japan)
2015 Asian Core Program Lectureship Award (by Korea)
2015 Best Poster Award, Tetrahedron Symposium, Berlin
2014 Thieme Chemistry Journal Award
2013 School of Science Research Award, HKUST
2013 Asian Core Program Lectureship Award (by Singapore)
2012 Early Career Award, Research Grants Council, Hong Kong

- 2011 Asian Core Program Lectureship Award (by Japan)
 2008 Elizabeth R. Norton Prize for Excellence in Research in Chemistry,
 University of Chicago
 2006-2007 Abbott Fellowship in Synthetic Organic Chemistry, Abbott Laboratories
 1998-1999 Outstanding Student Award, Nanjing University
 1997-2000 People Fellowship, Nanjing University (4 times)

Publications († denotes major contribution by collaborators)

180. Catalytic Enantioselective Nucleophilic α -Chlorination of Ketones with NaCl
 Li, Z.; Wang, B.; Zhang, C.; Lo, W. Y.; Yang, L.; Sun, J.*
J. Am. Chem. Soc. **2024**, *146*, 2779-2788.
179. Mild Stereoselective Synthesis of Densely Substituted [3]Dendralenes via Ru-
 Catalyzed Intermolecular Dimerization of 1,1-Disubstituted Allenes
 Li, S.; Feng, Q.; Song, L.;* Zhang, X.; Wu, Y.-D.;* Sun, J.*
J. Am. Chem. Soc. **2024**, *146*, 1532-1542.
178. Primary activation of para-quinone methides by chiral phosphoric acid for
 enantioselective construction of tetraarylmethanes
 Han, Z.; Zhu, B.; Zang, Y.; Zhang, C.; Dong, X.-Q.; Huang, H.;* Sun, J.*
Chem. Sci. **2024**, *15*, 720-725.
- 177.† Palladium-Catalyzed [4+2] and [6+2] Dipolar Cycloadditions for the Construction of
 Benzo[d]isothiazole 1,1-Dioxide Fused 1,3-Oxazinanes and 1,3-Oxazocanes
 Chen, L.; Xie, H.; Xue, Y.; Han, Z.; Sun, J.; Huang, H.*
Chin. J. Chem. **2024**, *42*, 829-834.
- 176.† Visible-Light Photoredox-Catalyzed Intermolecular α -Aminomethyl/Carboxylative
 Dearomatization of Indoles with CO₂ and α -Aminoalkyl Radical Precursors
 Gao, W.; Yang, Q.; Yang, H.; Yao, Y.; Bai, J.; Sun, J.; Sun, S.*
Org. Lett. **2024**, *26*, 467-472.
175. Heterodifunctionalization of Electron-Rich Alkynes Catalyzed by *in Situ* Generated
 Silylium Ions
 Su, X.; Wang, Y.; Feng, Q.; Sun, J.*
Org. Lett. **2024**, *26*, 421-426.
174. Organocatalytic Enantioselective Nucleophilic Addition of Indole Imine 5-Methides
 Li, Y.; Huang, J.; Han, Z.; Huang, H.;* Hong, B.;* Sun, J.*
Org. Lett. **2024**, *26*, 396-400.
- 173.† AIEgen-Based Covalent Organic Frameworks for Preventing Malignant Ventricular
 Arrhythmias Via Local Hyperthermia Therapy

- Zhang, L.; Guo, F.; Xu, S.; Deng, Q.; Xie, M.; Sun, J.; Kowk, R. T. K.; Lam, J. W. Y.;* Deng, H.;* Jiang, H.;* Liu, L.;* Tang, B. Z.*
Adv. Mater. **2023**, 2304620.
- 172.† Red/NIR emissive aggregation-induced emission-active photosensitizers with strong donor–acceptor strength for image-guided photodynamic therapy of cancer
Ma, Y.; Yin, W.; Ji, S.;* Wang, J.; Lam, J. W. Y.;* Kwok, R. T. K.; Huo, Y.; Sun, J.;
Tang, B. Z.
Luminescence **2023**, 38, 2086-2094.
- 171.† Integrating Anion– π + Interaction and Crowded Conformation to Develop Multifunctional NIR AIEgen for Effective Tumor Theranostics via Hippo–YAP Pathway
Yang, S.; Yu, H.; Liu, J.; Ma, L.; Hou, Z.; Miao, M. Z.; Kwok, R. T. K.; Sun, J.;
Sung, H. H. Y.; Willams, I. D.; Lam, J. W. Y.;* Liu, X.;* Tang, B. Z.*
ACS Nano **2023**, 17, 21182-21194.
- 170.† A Photoactivatable Luminescent Motif through Ring-Flipping Isomerization for Multiple Photopatterning
Li, X.; Li, W.; Liu, X.; Zhang, M.; Yu, E. Y.; Law, A. W. K.; Ou, X.; Zhang, J.; Sung, H. H. Y.; Tan, X.; Sun, J.; Lam, J. W. Y.;* Guo, Z.;* Tang, B. Z.
J. Am. Chem. Soc. **2023**, 145, 26645-26656.
- 169.† More Is Better: Dual-Acceptor Engineering for Constructing Second Near-Infrared Aggregation-Induced Emission Luminogens to Boost Multimodal Phototheranostics
Yang, S.; Zhang, J.; Zhang, Z.;* Zhang, R.; Ou, X.; Xu, W.; Kang, M.; Li, X.; Yan, D.; Kwok, R. T. K.; Sun, J.; Lam, J. W. Y.; Wang, D.;* Tang, B. Z.*
J. Am. Chem. Soc. **2023**, 145, 22776-22787.
- 168.† Activation of Pyroptosis Using AIEgen-Based sp^2 Carbon-Linked Covalent Organic Frameworks
Zhang, L.; Wan, S.-C.; Zhang, J.; Zhang, M.-J.; Yang, Q.-C.; Zhang, B.; Wang, W.-Y.; Sun, J.; Kowk, R. T. K.; Lam, J. W. Y.;* Deng, H.;* Sun, Z.-J.;* Tang, B. Z.*
J. Am. Chem. Soc. **2023**, 145, 17689-17699.
167. Asymmetric Synthesis of Remotely Chiral Naphthols and Naphthylamines via (Aza-) Naphthoquinone Methides
Liu, S.;¹ Chan, K. L.;¹ Lin, Z.;* Sun, J.*
J. Am. Chem. Soc. **2023**, 145, 12802-12811.
166. Chiral phosphoric acid catalyzed redox deracemization of triarylmethanes
Liu, C.; Li, Z.; Li, P.*; Sun, J.*
Chem. Synth. **2023**, 3, 22.

- 165.† Copper-Catalyzed Enantioselective Formal [4 + 1] and [3 + 3] Cycloaddition of Ethynylethylene Carbonates
Zhu, H.; Xu, L.; Zhu, B.; Liao, M.; Li, J.; Han, Z.;* Sun, J.; Huang, H.*
Org. Lett. **2023**, *25*, 9213-9218.
- 164.† Metal-Free C(sp³)–H Bond Arylation of 3-Methylindole Derivatives via 3-Indole Imine Methides
Wang, J.; Yu, R.; Nian, C.; Liao, M.; Han, Z.; Sun, J.;* Huang, H.*
Org. Lett. **2023**, *25*, 8478-8483.
- 163.† [Cp*IrCl₂]₂-Catalyzed Amidocarbonation of Olefins with Sulfoxonium Ylides toward Functionalized Isoindolin-1-ones
Yang, Q.; Bai, J.; Yang, H.; Yao, Y.; Yao, Y.; Sun, J.; Sun, S.*
Org. Lett. **2023**, *25*, 7148-7153.
- 162.† Pd-Catalyzed Ligand-Directed Divergent Cycloaddition of Cyclic 1-Azadienes with Oxo-1,4-dipoles
Xie, H.; Chen, L.; Han, Z.; Yang, Z.; Sun, J.;* Huang, H.*
Org. Lett. **2023**, *27*, 5011-5016.
- 161.† Chiral Phosphine Catalyzed Allylic Alkylation of Benzylidene Succinimides with Morita–Baylis–Hillman Carbonates
Liu, C.; Sun, J.;* Li, P.*
Molecules **2023**, *28*, 2825.
- 160.† Dual Behavior Regulation: Tether-Free Deep-Brain Stimulation by Photothermal and Upconversion Hybrid Nanoparticles
Sun, F.; Shen, H.; Yang, Q.;* Yuan, Z.; Chen, Y.; Guo, W.; Wang, Y.; Yang, L.; Bai, Z.; Liu, Q.; Jiang, M.; Lam, J. W. Y.; Sun, J.; Ye, R.; Kowk, R. T. K.;* Tang, B. Z.*
Adv. Mater. **2023**, *35*, 2210018.
- 159.† Tandem Allylic Amination/oxa-Michael Addition of Vinyl Methylene Cyclic Carbonates via Palladium-Organic Relay Catalysis
Yang, Z.; Bao, Y.; Huang, J.; Han, Z.; Sun, J.; Huang, H.*
Org. Lett. **2023**, *25*, 5624-5629.
- 158.† Powerful Synergy of Traditional Chinese Medicine and Aggregation-Induced Emission-Active Photosensitizer in Photodynamic Therapy
Sun, F.; Shen, H.; Liu, Q.; Chen, Y.; Guo, W.; Du, W.; Xu, C.; Wang, B.; Xing, G.; Jin, Z.; Lam, J. W. Y.; Sun, J.; Ye, R.; Kwok, R. T. K.; Chen, J.;* Tang, B. Z.*
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- 157.† Tunable Room Temperature Phosphorescence in Heavy-Atom-Free Metal–Organic Frameworks by Ligand Functionalization
Yu, Q.; Zhang, J.; Lam, J. W. Y.; Yang, D.;* Sun, J.;* Tang, B. Z.*
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- 156.† Integration of AIEgens into covalent organic frameworks for pyroptosis and ferroptosis primed cancer immunotherapy
Zhang, L.; Song, A.; Yang, Q.-C.; Li, S.-J.; Wang, S.; Wan, S.-C.; Sun, J.; Kowk, R. T. K.; Lam, J. W. Y.*; Deng, H. X.*; Tang, B. Z.*; Sun, Z.-J.*
Nat. Commun. **2023**, *14*, 5355.
- 155.† In Situ Synthesis of AIEgen-based Porous Organic Polymer Films by Interfacial Amino-yne Click Polymerization for Efficient Light-Harvesting
Song, B.; Zhang, L.; Sun, J.; Lam, J. W. Y.*; Tang, B. Z.*
Angew. Chem., Int. Ed. **2023**, *135*, e202302543.
- 154.† Regulating the proximity effect of heterocycle-containing AIEgens
Zhang, J.; Tu, Y.; Shen, H.; Lam, J. W. Y.; Sun, J.; Zhang, H.*; Tang, B. Z.*
Nat. Commun. **2023**, *14*, 3772.
- 153.† Water-Soluble Aggregation-Induced Emission Luminogens with Near-Infrared Emission for Advanced Phototheranostics
Shen, H.; Xu, C.*; Ye, R.; Liu, T.-M.; Zhang, J.; Kowk, R. T. K.; Lam, J. W. Y.; Guo, Z.; Sun, J.*; Tang, B. Z.*
Small Science **2023**, *3*, 2300052.
- 152.† Aggregation-Induced Emission Macromolecular Materials for Antibacterial Applications
Zuo, Y.; Kowk, R. T. K.; Sun, J.; Lam, J. W. Y.*; Tang, B. Z.*
Macromol. Rapid Commun. **2023**, *44*, 2300104.
- 151.† *In Vivo* Aggregation of Clearable Bimetallic Nanoparticles with Interlocked Surface Motifs for Cancer Therapeutics Amplification
Tan, Y.; Huang, D.; Luo, C.; Tang, J.; Kowk, R. T. K.; Lam, J. W. Y.; Sun, J.; Liu, J.*; Tang, B. Z.*
Nano Lett. **2023**, *23*, 7683-7690.
- 150.† Construction of 5-methyleneoxazolidine-2,4-diones bearing modifiable halogen groups through a halopalladation strategy
Zhan, H.; Chen, B.; Zhu, B.; Li, X.; Han, Z.; Sun, J.; Huang, H.*
Chem. Commun. **2023**, *59*, 13631-13634.
- 149.† An Alkaline Phosphatase-Responsive Aggregation-Induced Emission Photosensitizer for Selective Imaging and Photodynamic Therapy of Cancer Cells
Lam, K. W. K.; Chau, J. H. C.; Yu, E. Y.; Sun, F.; Lam, J. W. Y.; Ding, D.; Kwok, R. T. K.*; Sun, J.; He, X.*; Tang, B. Z.*
ACS Nano **2023**, *17*, 7145-7156.
148. Electricity-Driven Asymmetric Bromocyclization Enabled by Chiral Phosphate Anion Phase-Transfer Catalysis

- Tan, X.;* Wang, Q.; Sun, J.*
Nat. Commun. **2023**, *14*, 357.
147. Ir-Catalyzed Regioselective Dihydroboration of Thioalkynes toward *Gem*-Diboryl Thioethers
Wang, Y.;¹ Li, Y.;¹ Wang, L.; Ding, S.; Song, L.;* Zhang, X.;* Wu, Y.-D.;* Sun, J.* (¹: equal contribution)
J. Am. Chem. Soc. **2023**, *145*, 2305-2314.
146. Enantioselective Synthesis of Tetraarylmethanes through *meta*-Hydroxyl-directed Benzylic Substitution
Tan, X.;¹ Deng, Z.;¹ Wang, Q.; Chen, S.; Zhu, G.;* Sun, J.* (¹: equal contribution)
Nat. Synth. **2023**, *2*, 275-285.
- 145.† Near-Infrared Aggregation-Induced Emission Luminogens for In Vivo Theranostics of Alzheimer's Disease
Zhang, T.; Chen, X.; Yuan, C.; Pang, X.; Shangguan, P.; Liu, Y.; Han, L.; Sun, J.;
Lam, J. W. Y. L.; Liu, Y.; Wang, J.;* Shi, B.;* Tang, B. Z.*
Angew. Chem., Int. Ed. **2023**, *62*, e202211550.
144. Catalytic Enantioselective Synthesis of 2,3'-Bis(indolyl)methanes Bearing All-Carbon Quaternary Stereocenters via 2-Indole Imine Methides
Han, Z.; Wang, W.; Zhuang, H.; Wang, J.; Wang, C.; Wang, J.;* Huang, H.;* Sun, J.*
Org. Lett. **2023**, *25*, 477-482.
- 143.† Metal-free Multicomponent Polymerization of Activated Diyne, Electrophilic Styrene and Isocyanide Towards Highly Substituted and Functional Poly(cyclopentadiene)
Liu, X.; Yang, X.; Li, X.; Sun, J.;* He, B.;* Lam, J. W. Y.;* Tang, B. Z.*
Sci. Chin. Chem. **2023**, *66*, 863-869.
- 142.† Catalytic Asymmetric Synthesis of α -Tertiary Aminoketones from Sulfoxonium Ylides Bearing Two Aryl Groups
Zhou, Y.; Yue, X.; Jiang, F.; Sun, J.; Guo, W.*
Chem. Commun. **2023**, *59*, 1193-1196.
141. Visible-light-induced Organocatalytic Enantioselective N-H Insertion of α -Diazoesters Enabled by Indirect Free Carbene Capture
Guo, W.;* Zhou, Y.; Xie, H.; Yue, X.; Jiang, F.; Huang, H.; Han, Z.; Sun, J.*
Chem. Sci. **2023**, *14*, 843-848.
- 140.† Fluorescent Imaging and Sorting of High-Lipid-Content Strains of Green Algae by Using an Aggregation-Induced Emission Luminogen
Liu, H.; Yan, N.;* Wong, T. Y.; Lam, H.; Lam, J. W. Y.; Kwok, R. T. K.;* Sun, J.;
Tang, B. Z.*

- ACS Nano.* **2022**, *16*, 14973-14981.
- 139.† Design of Smart Aggregates: Toward Rapid Clinical Diagnosis of Hyperlipidemia in Human Blood
Sun, F.; Zhao, W.; Shen, H.; Fan, N.; Zhang, J.; Liu, Q.; Xu, C.; Luo, J.; Zhao, M.; Chen, Y.; Lam, K. W. K.; Yang, X.; Kowk, R. T. K.; Lam, J. W. Y.; Sun, J.; Zhang, H.;* Tang, B. Z.*
Adv. Mater. **2022**, *34*, 2207671.
- 138.† Construction of diverse polycyclic N-heterocycles via cascade allylic amination/Diels-Alder reaction
Yang, Z.; Xie, H.; Tang, L.; Sun, J.; Han, Z.; Huang, H.*
Chem. Commun. **2022**, *58*, 13258-13261.
137. Nickel-Catalyzed Asymmetric Dicarbofunctionalization of Alkynes to Access Axially Chiral Styrenes
Tan, X.; Sun, J.*
Chem Catal. **2022**, *2*, 2813-2815. (Invited Preview article)
- 136.† Rapid Biotransformation of Luminescent Bimetallic Nanoparticles in Hepatic Sinusoids
Tan, Y.; Cai, W.; Luo, C.; Tang, J.; Kwok, R. T. K.; Lam, J. W. Y.; Sun, J.; Liu, J.;* Tang, B. Z.*
J. Am. Chem. Soc. **2022**, *144*, 20653-20660.
- 135.† Total Synthesis of Yuzurine-type Alkaloid Daphgraciline
Li, L.-X.; Min, L.; Yao, T.-B.; Ji, S.-X.; Qiao C.; Tian, P.-L.; Sun, J.;* Li, C.-C.*
J. Am. Chem. Soc. **2022**, *144*, 18823-18828.
- 134.† Palladium-Catalyzed Intramolecular Enantioselective C(sp³)-H Insertion of Donor/donor Carbenes
Li, W.; Zhang, H.; Jiang, H.; Sun, J.; Zhu, S.*
Chem. Sci. **2022**, *13*, 12396-12402.
- 133.† Catalyst-Controlled Divergent Reactions of 2,3-Disubstituted Indoles with Propargylic Alcohols: Synthesis of 3H-Benzo[b]azepines and Axially Chiral Tetrasubstituted Allenes
Qian, C.; Huang, T.; Sun, J.;* Li, P.*
Org. Lett. **2022**, *24*, 6472-6476.
132. Organocatalytic Asymmetric Azidation of Sulfoxonium Ylides: Mild Synthesis of Enantioenriched α -Azido Ketones Bearing a Labile Tertiary Stereocenter
Guo, W.;* Jiang, F.; Li, S.; Sun, J.*
Chem. Sci. **2022**, *13*, 11648-11655.

- 131.† Construction of Nine-membered N,N,O-Heterocycles via Pd-Catalyzed [6+3] Dipolar Cycloaddition
Xie, H.; Yang, Z.; Tang, L.; Han, Z.; Sun, J.;^{*} Huang, H.^{*}
Chem. Commun. **2022**, 58, 10560-10563.
- 130.† Base-Promoted 5-exo-dig Cyclization of o-Alkynylamides or 2-En-4-ynamides with CO₂ toward Fully Substituted Acrylates
Sha, Y.; Bai, J.; Li, M.; Gao, W.; Yang, Q.; Sun, J.; Sun, S.^{*}
Org. Lett. **2022**, 24, 5715-5720.
129. Ru-Catalyzed Hydroboration of Ynones Leads to a Nontraditional Mode of Reactivity
Feng, Q.; Li, S.; Li, Z.; Yan, Q.; Lin, X.; Song, L.;^{*} Zhang, X.;^{*} Wu, Y.-D.;^{*} Sun, J.^{*}
J. Am. Chem. Soc. **2022**, 144, 14846-14855.
- 128.† Rational Design of NIR-II AIEgens with Ultrahigh Quantum Yields for Photo- and Chemiluminescence Imaging
Shen, H.; Sun, F.; Zhu, X.; Zhang, J.; Ou, X.; Zhang, J.; Xu, C.; Sung, H. H. Y.; Williams, I. D.; Chen, S.; Kwok, R. T. K.; Lam, J. W. Y.; Sun, J.; Zhang, F.;^{*} Tang, B. Z.^{*}
J. Am. Chem. Soc. **2022**, 144, 15391-15402.
127. Chiral α -amino acid synthesis via asymmetric carbene insertion into ammonia
Yang, L.; Sun, J.^{*}
Nat. Catal. **2022**, 5, 471-472. (Invited News and Views)
126. Quinone methides and indole imine methides as intermediates in enantioselective catalysis
Li, X.; Li, Z.; Sun, J.^{*}
Nat. Synth. **2022**, 1, 426-438. (Invited review article)
125. Ru-Catalyzed Geminal Hydroborative Cyclization of Enynes
Tan, Y.; Li, S.; Song, L.;^{*} Zhang, X.; Wu, Y.-D.;^{*} Sun, J.^{*}
Angew. Chem., Int. Ed. **2022**, 61, e202204319.
- 124.† Secondary through-space interactions facilitated single-molecule white-light emission from clusteroluminogens
Zhang, J.; Alam, P.; Zhang, S.; Shen, H.; Hu, L.; Sung, H. H. Y.; Williams, I. D.; Sun, J.; Lam, J. W. Y.;^{*} Zhang, H.;^{*} Tang, B. Z.^{*}
Nat. Commun. **2022**, 13, 3492.
123. Catalytic Asymmetric Allylic Substitution/Isomerization with Central Chirality Transposition
Han, Z.; Zhuang, H.; Tang, L.; Zang, Y.; Guo, W.; Huang, H.;^{*} Sun, J.^{*}
Org. Lett. **2022**, 24, 4246-4251.

122. Enantioselective synthesis of triarylmethanes via organocatalytic transfer hydrogenation of *para*-quinone methides
Han, Z.; Zang, Y.; Liu, C.; Guo, W.; Huang, H.;* Sun, J.*
Chem. Commun. **2022**, 58, 7128-7131.
121. Reductive Opening of Oxetanes Catalyzed by Frustrated Lewis Pairs: Unexpected Aryl Migration via Neighboring Group Participation
Tang, L.; Zang, Y.; Guo, W.; Han, Z.; Huang, H.;* Sun, J.*
Org. Lett. **2022**, 24, 3259-3264.
- 120.† Photoactive Metal Carbonyl Complexes Bearing N-Heterocyclic Carbene Ligands: Synthesis, Characterization, and Viability as Photoredox Catalysts
Tang, M.; Cameron, L.; Poland, E. M.; Yu, L.-J.; Moggach, S. A.; Fuller, R. O.; Huang, H.; Sun, J.; Thickett, S. C.; Massi, M.; Coote, M. L.;* Ho, C. C.;* Bissember, A. C.*
Inorg. Chem. **2022**, 61, 1888-1898.
119. Organocatalytic Discrimination of Non-Directing Aryl and Heteroaryl Groups: Enantioselective Synthesis of Bioactive Indole-Containing Triarylmethanes
Yan, Q.; Duan, M.; Chen, C.; Deng, Z.; Wu, M.; Yu, P.; He, M.-L.;* Zhu, G.;* Houk, K. N.;* Sun, J.*
Chem. Sci. **2022**, 13, 5767-5773.
- 118.† Oxygen Quenching-Resistant Nanoaggregates with Aggregation-Induced Delayed Fluorescence for Time-Resolved Mapping of Intracellular Microviscosity
Song, F.; Ou, X.; Chou, T. Y.; Liu, J.; Gao, H.;* Zhang, R.; Huang, X.; Zhao, Z.; Sun, J.; Chen, S.;* Lam, J. W. Y.;* Tang, B. Z.*
ACS Nano. **2022**, 16, 6176-6184.
117. Asymmetric Synthesis of Pyrrolidines via Oxetane Desymmetrization
Zhang, R.; Sun, M.; Yan, Q.; Lin, X.; Li, X.; Fang, X.; Sung, H. H. Y.; Williams, I. D.; Sun, J.*
Org. Lett. **2022**, 24, 2359-2364.
- 116.† Aggregation-Induced Emission Luminogens for Cell Death Research
Zuo, Y.; Shen, H.; Sun, F.; Li, P.; Sun, J.; Kwok, R. T. K.; Lam, J. W. Y.;* Tang, B. Z.*
ACS Bio. Med. Chem. Au **2022**, 2, 236-257.
- 115.† Chiral phosphoric acid-catalyzed regio- and enantioselective reactions of functionalized propargylic alcohols
Qian, C.; Liu, M.; Sun, J.;* Li, P.*
Org. Chem. Front. **2022**, 9, 1234-1240.

114. Catalytic Enantioselective Synthesis of 2,3-Dihydrobenzo[b]oxepines via Asymmetric Oxetane Opening by Internal Carbon Nucleophiles
Zhang, T.; Zhuang, H.; Tang, L.; Han, Z.; Guo, W.; Huang, H.;* Sun, J.*
Org. Lett. **2022**, *24*, 207-212.
113. Asymmetric dearomatization enabled by chiral Brønsted acid activation of ynamides.
Li, X.; Sun, J.*
Sci. Chin. Chem. **2022**, *65*, 3-4. (Invited highlight article)
- 112.† Visible-Light Photoredox-Catalyzed Dicarbofunctionalization of Styrenes with Oxime Esters and CO₂: Multicomponent Reactions toward Cyanocarboxylic Acids and γ -Keto Acids
Bai, J.; Li, M.; Zhou, C.; Sha, Y.; Cheng, J.; Sun, J.; Sun, S.*
Org. Lett. **2021**, *23*, 9654-9658.
111. SPHENOL, A New Chiral Framework for Asymmetric Synthesis
Zhang, R.; Ge, S.; Sun, J.*
J. Am. Chem. Soc. **2021**, *143*, 12445-12449.
110. A Mild Intermolecular Synthesis of Cyclopropane-Incorporated Tricyclic Skeleton: Unusual Reactivity of Isobenzopyryliums
Liu, S.; Qian, H.; Han, Z.; Guo, W.; Huang, H.; Sun, J.*
Angew. Chem., Int. Ed. **2021**, *60*, 21272-21276.
109. Organocatalytic Asymmetric Formal Oxidative Coupling for the Construction of All-Aryl Quaternary Stereocenters
Li, Z.; Li, Y.; Li, X.; Wu, M.; He, M.-L.;* Sun, J.*
Chem. Sci. **2021**, *12*, 11793-11798.
108. Organocatalytic Enantioselective Dearomatization of Thiophenes by 1,10-Conjugate Addition of Indole Imine Methides
Li, X.; Duan, M.; Yu, P.; Houk, K. N.;* Sun, J.*
Nat. Commun. **2021**, *12*, 4881.
107. Organocatalytic Asymmetric Synthesis of α -Amino Esters from Sulfoxonium Ylides
Guo, W.; Wang, M.; Han, Z.; Huang, H.;* Sun, J.*
Chem. Sci. **2021**, *12*, 11191-11196.
106. An Unusual Formal Migrative Cycloaddition of Aurone-derived Azadienes: Synthesis of Benzofuran-fused Nitrogen Heterocycles
Feng, Q.; Wu, A.; Zhang, X.; Song, L.;* Sun, J.*
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- 105.† Photoredox-Catalyzed α -Aminomethyl Carboxylation of Styrenes with Sodium Glycinates: Synthesis of γ -Amino Acids and γ -Lactams

- Zhou, C.; Li, M.; Sun, J.; Cheng, J.;* Sun, S.*
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104. Ru-Catalyzed [3 + 2] Cycloaddition of Nitrile Oxides and Electron-Rich Alkynes with Reversed Regioselectivity
Feng, Q.; Huang, H.; Sun, J.*
Org. Lett. **2021**, *23*, 2431-2436.
103. An Organocatalytic Kinetic Resolution of Aziridines by Thiol Nucleophiles
Sun, S.; Wang, Z.; Li, S.; Zhou, C.; Song, L.; Huang, H.;* Sun, J.*
Org. Lett. **2021**, *23*, 554-558.
102. Catalytic Enantioselective Synthesis of Spirooxindoles by Oxidative Rearrangement of Indoles
Qian, C.; Li, P.;* Sun, J.*
Angew. Chem., Int. Ed. **2021**, *60*, 5871-5875.
101. Mild C-C Bond Formation via Lewis Acid Catalyzed Oxetane Ring Opening with Soft Carbon Nucleophiles
Huang, H.; Zhang, T.; Sun, J.*
Angew. Chem., Int. Ed. **2021**, *60*, 2668-2673.
100. In(OTf)₃-Catalyzed Synthesis of 2,3-Dihydro-1H-benzo[e]indoles and 2,3-Dihydrobenzofurans via [3 + 2] Annulation
Liu, S.; Zang, Y.; Huang, H.;* Sun, J.*
Org. Lett. **2020**, *22*, 8219-8223.
99. Catalytic Enantioselective Synthesis of Chiral Tetraarylmethanes
Li, X.; Duan, M.; Deng, Z.; Shao, Q.; Chen, M.; Zhu, G.;* Houk, K. N.;* Sun, J.*
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