

Chen Zhu

Associate Professor (Research Professor and PhD advisor)

College of Science

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Updated October 2026

Research Interests

Photo- and electrocatalysis	Sustainable bond formation with light and electricity: photoredox/nickel dual catalysis, electrosynthesis, asymmetric catalysis, and alternating-current photoelectrocatalysis (AC-PEC).
DFT and mechanism	Reaction mechanisms from first principles: DFT studies of catalytic cycles and of the origins of selectivity, and computed descriptors as input for models.
AI and automation	AI for Science in a self-driving laboratory, built as a dry-wet closed loop whose first phase is complete: Bayesian optimization and active learning choose each next experiment, and every result retrains the model — physical recursive self-improvement (physical RSI).

Academic Appointments

2023–present	Associate Professor (Research Professor and PhD advisor) College of Science, Eastern Institute of Technology, Ningbo (EIT), China Independent principal investigator since August 2023 Adjunct PhD advisor, Shanghai Jiao Tong University and University of Science and Technology of China
2020–2023	Research Scientist KAUST Catalysis Center, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia Built an automated synthesis platform based on Chemspeed robotics
2019–2020	Postdoctoral Fellow KAUST Catalysis Center, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia Group of Prof. Magnus Rueping

Education

2017–2019	PhD in Chemistry , RWTH Aachen University, Germany Advisor: Prof. Magnus Rueping · <i>summa cum laude</i> , completed in two years
2014–2017	MSc in Chemistry , RWTH Aachen University, Germany Laboratory of Prof. Magnus Rueping
2010–2014	BSc in Chemistry , RWTH Aachen University, Germany Laboratory of Prof. Dieter Enders

Honors and Awards

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| 2023–2025 | World's Top 2% Scientists
Listed for three consecutive years in the Stanford–Elsevier ranking of the world's most-cited scientists. |
| 2019 | Doctorate <i>summa cum laude</i> & Borchers-Plakette
The doctorate was awarded with the highest distinction; the Borchers-Plakette is the medal that RWTH Aachen confers for that grade. |

Research Funding and Talent Programs

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| 2025–2026 | AI-Empowered Organic Chemistry
A project under the Ministry of Science and Technology's National Science and Technology Major Project program. Chen Zhu led its research task "Intelligent Experimental Design and Laboratory Automation Operating System". The task ran from June 2025 to May 2026 and has concluded. |
| 2024 | NSFC Young Scientists Fund
National Natural Science Foundation of China. |
| 2023 | NSFC Excellent Young Scientists Fund (Overseas)
China's national program for high-level young scientists recruited from overseas. |
| 2023 | Ningbo Yongjiang Talent Program
Ningbo's municipal talent program. |
| 2023 | Start-up funding, Eastern Institute of Technology, Ningbo
Institutional start-up support for the independent laboratory established in August 2023. |

Research Group

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| Current | 2 research assistant professors, 3 postdoctoral fellows, and 9 PhD students
Doctoral students are enrolled through joint PhD programs with Shanghai Jiao Tong University (SJTU) and the University of Science and Technology of China (USTC), and they carry out their research in the group at EIT Ningbo. |
| Alumni | 2 former members
Postdoctoral Fellow, 2023–2025: now on the chemistry faculty of Wuhan Donghu University.
Postdoctoral Fellow, 2023–2026: now at Henan University. |

Publications

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| Overview | 62 peer-reviewed papers, 40 of them as first, co-first, or corresponding author
3,400+ citations · h-index ~ 30 · 5 ESI Highly Cited Papers
Citation figures from Google Scholar and Essential Science Indicators, as of August 2026. Papers are numbered as on zhu.eitech.edu.cn/publications , newest first; the list there is kept up to date.
equal contribution · * corresponding author · Chen Zhu in bold |
| 2026 | 62 Xiushan Liu [#] , Cai Zhai [#] , Yong Jiang, Jianru Xie, Baihui Liang, Chen Zhu [*] , Huifeng Yue [*]
Direct α-Trifluoromethyl Amidation and Three-Component Alkene Trifluoroalkylamidation via Merging Halogen-Atom Transfer and Nickel-Mediated Nitrenoid Transfer
<i>J. Am. Chem. Soc.</i> 2026 , published online DOI 10.1021/jacs.6c07942 |

- 61 Zhiyang Lin, Cai Zhai, Yong Jiang, Hao Wen, Changhong Wang, Zongwei Cai, **Chen Zhu***
Applying Asymmetric-waveform Alternating Current in Nickel-Catalyzed Asymmetric Reductive Cross-coupling
Nat. Commun. **2026**, 17, 5646 DOI 10.1038/s41467-026-72336-5
- 60 Chao Wan, Chao Yang, Magnus Rueping, **Chen Zhu***, Lin Guo*, Wujiong Xia*
Dearomative Syn-1,4-Hydroalkylation and C(sp²)-H Alkylation of Arenes Controlled by Chemoselective Electrolysis
Nat. Chem. **2026**, 18, 386–397 DOI 10.1038/s41557-025-02001-9
- 59 Yajuan Li, Yatao Lang, Shu-Fan He, Daixi Li*, Ke-Xin Liu, Wenying Ai*, Yong Jiang, **Chen Zhu***, Tao Shen*
Programmable divergent electrochemical ring-opening multifunctionalization of strained rings
Nat. Chem. **2026**, 18, 656–668 DOI 10.1038/s41557-026-02110-z
- 58 Amir Gizatullin, Tingting Yuan, Sascha Grotjahn, Luigi Cavallo, Burkhard König*, **Chen Zhu***, Magnus Rueping*
Predictive, Data-Driven Design of Red-Light Photoredox Catalysts for C–Heteroatom Bond Formation
Angew. Chem. Int. Ed. **2026**, 65, e202526086 DOI 10.1002/anie.202526086
- 57 Cai Zhai, Chengkai Pan, Zhiyang Lin, Wei Liu, Yong Jiang, Yatao Lang, **Chen Zhu***
Mechanistic and Experimental Insights into Ligand-Class and Radical-Identity Effects on S_H2-Mediated Radical Sorting in Nickel Catalysis
Inorg. Chem. **2026**, 65, 14581–14590 DOI 10.1021/acs.inorgchem.6c01080
- 56 Jianguo Han, Yatao Lang, **Chen Zhu***, Huifeng Yue*
Solvent-controlled divergent 1,2-dialkylation and 1,1,2-bromodialkylation of terminal alkynes to access difluoroalkylated cyclopentanes
Green Chem. **2026**, 28, 4842–4849 DOI 10.1039/d5gc06365e
- 55 Chen Li, Cai Zhai, Shun-Ling Kong, Yong-Qi Wang, Wei Yang, Shi-Qing Zhang, Jun-Qi Liu, Jianfeng Zhang, **Chen Zhu***, Wen-Ting Wei*
Ring-Opening of Nonstrained Cyclic Carboxylic Acid Induced Carbo-Carbonylation of Alkenes To Construct Asymmetric Long-Chain Diketones
Org. Lett. **2026**, 28, 7202–7208 DOI 10.1021/acs.orglett.6c01624
- 54 Wei Liu, Cai Zhai, Yong Jiang, Li-Pu Wei, Hong-Chen Li, Zongwei Cai, **Chen Zhu***
Applying Alternating Current in Paired Photo-electrocatalysis (AC-PEC) for Asymmetric Cross-Coupling of Alcohols
Nat. Synth. **2025**, 4, 1534–1545 DOI 10.1038/s44160-025-00875-8
- 53 Haifeng Chen, Cai Zhai, Huabing Zhang, **Chen Zhu***, Magnus Rueping*
Switchable Electrochemical Pathways for the Selective C(sp³)-Ge Bond Formation
Nat. Commun. **2025**, 16, 7247 DOI 10.1038/s41467-025-62141-x
- 52 Shu-Fan He, Tianyi Xu, Qinhui Wan, Kai Tang, Xiangyang Chen*, Daixi Li*, Yong Jiang, Cai Zhai, **Chen Zhu***, Tao Shen*
Divergent Upcycling of Polystyrene into Phenol and Hydroquinone Derivatives by Photocatalysis and Electrocatalysis
Angew. Chem. Int. Ed. **2025**, 64, e202508166 DOI 10.1002/anie.202508166
- 51 Muhammad Adnan Bashir, Yong Jiang, Cai Zhai, Chun-Hong Hu, Zhiyang Lin, **Chen Zhu***
Electrophotochemical Ce-Catalyzed Radical Truce–Smiles Rearrangement of Cycloalkanols
Org. Lett. **2025**, 27, 12980–12985 DOI 10.1021/acs.orglett.5c03885

- 50 Liu-Bin Li[#], Cai Zhai[#], Cuiyan Wu, Wei-Qian Fan, Chen Li, Yi-Bin Zhang, Hong-Lin Wu, **Chen Zhu**^{*}, Wen-Ting Wei^{*}
Ternary Synthon Strategy for 1,3,5-Trisubstituted Benzenes via [3 + 3] Benzannulation of Propargyl Alcohols
Org. Lett. **2025**, 27, 7001–7008 DOI 10.1021/acs.orglett.5c01852
- 49 Haifeng Chen, Cai Zhai, **Chen Zhu**^{*}, Magnus Rueping^{*}
Allylgermane synthesis via facile and general nickela-electrocatalyzed electrophile coupling
Chem Catal. **2025**, 5, 101257 DOI 10.1016/j.checat.2024.101257
- 48 Lan Mei, Mu-Han Li, Wen-Chan Tian, Wei-Qian Fan, Liu-Bin Li, Qiang Li, Cai Zhai, **Chen Zhu**^{*}, Wen-Ting Wei^{*}
Controllable Synthesis of Oxa-/Thia-Spirohydroquinolines by [3+(2+1)] Annulation of Aromatic Amines with Bimolecular O/S-Heterocyclic Ketones
Adv. Synth. Catal. **2025**, 367, e202400974 DOI 10.1002/adsc.202400974
- 47 Yong Jiang, Yajuan Li, **Chen Zhu**^{*}, Tao Shen^{*}
Electrochemical Trioxxygenation of Allylarenes
Synthesis **2025**, 57, 597–605 DOI 10.1055/s-0040-1720135
Invited Feature Article · Highlighted by Thieme
- 46 Xuan-Xuan Du, Shu-Fan He, Daixi Li^{*}, Yong Jiang, **Chen Zhu**, Tao Shen^{*}
Continuous-flow electrochemical benzylic dehydrogenation of arylalkanes to arylalkenes
Green Chem. **2025**, 27, 7755–7762 DOI 10.1039/D5GC01442E
- 45 Prashant S. Shinde, Valmik S. Shinde, **Chen Zhu**, Magnus Rueping^{*}
Electrochemical Cobalt-Catalyzed Cross-Electrophile Coupling of Alcohols and Trifluoroalkenes via Simultaneous C–F and C–O Bond Cleavage
ACS Catal. **2025**, 15, 17198–17205 DOI 10.1021/acscatal.5c05140
- 2024 44 Yong Jiang, Fumei Ke, **Chen Zhu**^{*}, Daixi Li^{*}, Tao Shen^{*}
Electrochemical dibromoacetoxylation and trihalogenation of allylarenes
Tetrahedron Chem **2024**, 12, 100106 DOI 10.1016/j.tchem.2024.100106
Invited for the Special Issue “Electrochemistry and Synthesis”
- 43 Alice Nanni, Deshen Kong, **Chen Zhu**, Magnus Rueping^{*}
Nickel-catalyzed cross-coupling aminations via high-throughput mechanochemistry enabled by resonant acoustic mixing
Green Chem. **2024**, 26, 8341–8347 DOI 10.1039/d4gc01790k
- 42 Salman Alsharif[#], **Chen Zhu**[#], Xiushan Liu, Shao-Chi Lee, Huifeng Yue^{*}, Magnus Rueping^{*}
Nickel-catalyzed C(sp²)–C(sp³) coupling via photoactive electron donor-acceptor complexes
Chem. Commun. **2024**, 60, 5153–5156 DOI 10.1039/d4cc00217b
- 41 Jiaqi Jia, Kathiravan Murugesan, **Chen Zhu**, Huifeng Yue, Shao-Chi Lee, Magnus Rueping^{*}
Multiphoton photoredox catalysis enables selective hydrodefluorinations
Chin. Chem. Lett. **2024**, 36, 109866 DOI 10.1016/j.cclet.2024.109866
- 40 Chao-Shen Zhang, Chang-Zhen Fang, Liang Yi, **Chen Zhu**, Zhi-Xiang Wang^{*}, Xiang-Yu Chen^{*}, Magnus Rueping^{*}
N-heterocyclic nitrenium charge transfer catalysis via inner-sphere electron transfer in concert with halogen-atom dissociation
Org. Chem. Front. **2024**, 11, 673–683 DOI 10.1039/D3QO01779F

- 39 **Chen Zhu**[#], Haifeng Chen[#], Huifeng Yue^{*}, Magnus Rueping^{*}
Electrochemical chemo- and regioselective arylalkylation, dialkylation and hydro(deutero)alkylation of 1,3-enynes
Nat. Synth. **2023**, 2, 1068–1081 DOI 10.1038/s44160-023-00349-9
- 38 Haifeng Chen[#], **Chen Zhu**[#], Huifeng Yue^{*}, Magnus Rueping^{*}
Group 14 Elements Hetero-Difunctionalizations via Nickel-Catalyzed Electroreductive Cross-Coupling
Angew. Chem. Int. Ed. **2023**, 62, e202306498 DOI 10.1002/anie.202306498
- 37 Liuzhuang Xing[#], Qian Yang[#], **Chen Zhu**[#], Yilian Bai, Yurong Tang, Magnus Rueping^{*}, Yunfei Cai^{*}
Poly(heptazine imide) ligand exchange enables remarkable low catalyst loadings in heterogeneous metallaphotocatalysis
Nat. Commun. **2023**, 14, 1501 DOI 10.1038/s41467-023-37113-8
- 36 Tianyu Long[#], **Chen Zhu**[#], Ling Li, Liang Shao, Shengqing Zhu, Magnus Rueping^{*}, Lingling Chu^{*}
Ligand-Controlled Stereodivergent Alkenylation of Alkynes to Access Functionalized trans- and cis-1,3-Dienes
Nat. Commun. **2023**, 14, 55 DOI 10.1038/s41467-022-35688-2
- 35 Zheng-Jia Shen[#], **Chen Zhu**[#], Xiao Zhang, Chao Yang, Magnus Rueping^{*}, Lin Guo^{*}, Wujiong Xia^{*}
Organoboron Reagent-Controlled Selective (Deutero)Hydrodefluorination
Angew. Chem. Int. Ed. **2023**, 62, e202217244 DOI 10.1002/anie.202217244
- 34 Shao-Chi Lee[#], **Chen Zhu**[#], Kun Huang, Jeremy A. Bau, Jiaqi Jia, Huifeng Yue^{*}, Magnus Rueping^{*}
Photoinduced Nickel-Catalyzed Demethylative Cyanation and Decarboxylative Cyanomethylation of Aryl Halides
ACS Catal. **2023**, 13, 16279–16285 DOI 10.1021/acscatal.3c04745
- 33 Serik Zhumagazy[#], **Chen Zhu**[#], Huifeng Yue^{*}, Magnus Rueping^{*}
Nickel-Catalyzed Carbon–Selenium Bond Formations under Mild Conditions
Synlett **2023**, 34, 1381–1384 DOI 10.1055/s-0042-1752655
Invited Article
- 32 Liang Yi, **Chen Zhu**, Xiangyu Chen, Huifeng Yue, Tengfei Ji, Yiqiao Ma, Yuanyuan Cao, Rajesh Kancharla, Magnus Rueping^{*}
O–H Bond Activation of β,γ -Unsaturated Oximes via Hydrogen Atom Transfer (HAT) and Photoredox Dual Catalysis
Chem. Sci. **2023**, 14, 14271–14279 DOI 10.1039/D3SC04410F
- 31 Huifeng Yue, **Chen Zhu**, Magnus Rueping^{*}
Electrochemical cobalt catalysis enabled construction of diverse chiral skeletons via C–H activation
Sci. Bull. **2023**, 68, 1730–1732 DOI 10.1016/j.scib.2023.07.028
- 30 Gadde Sathish Kumar, **Chen Zhu**, Rajesh Kancharla, Prashant S. Shinde, Magnus Rueping^{*}
Metal Cations from Sacrificial Anodes Act as a Lewis Acid Co-Catalyst in Electrochemical Cross-Coupling of Aryl Bromides and Aziridines
ACS Catal. **2023**, 13, 8813–8820 DOI 10.1021/acscatal.3c01503

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- 29 Haifeng Chen, **Chen Zhu**, Huifeng Yue, Magnus Rueping*
Carbon–Germanium Bond Formation via Low-Valent Cobalt–Catalyzed Cross-Electrophile Coupling
ACS Catal. **2023**, 13, 6773–6780 DOI 10.1021/acscatal.3c01244
- 28 Wenhuan Huang, Chenyang Su, **Chen Zhu**, Tingting Bo, Shouwei Zuo, Wei Zhou, Yuanfu Ren, Yanan Zhang, Jing Zhang, Magnus Rueping*, Huabin Zhang*
Isolated Electron Trap-Induced Charge Accumulation for Efficient Photocatalytic Hydrogen Production
Angew. Chem. Int. Ed. **2023**, 62, e202304634 DOI 10.1002/anie.202304634
- 27 Long Huang, Marcin Szewczyk, Rajesh Kancharla, Bholanath Maity, **Chen Zhu**, Luigi Cavallo, Magnus Rueping*
Modulating Stereoselectivity in Allylic C(sp³)-H Bond Arylations via Nickel and Photoredox Catalysis
Nat. Commun. **2023**, 14, 548 DOI 10.1038/s41467-023-36103-0
- 26 Huifeng Yue, **Chen Zhu**, Magnus Rueping*
Trisaminocyclopropenium ion (TAC⁺) enables contiguous C-H bonds oxygenations via oxidative electrophotocatalysis
Sci. Bull. **2023**, 68, 367–369 DOI 10.1016/j.scib.2023.01.040
- 25 **Chen Zhu**, Shao-Chi Lee, Haifeng Chen, Huifeng Yue*, Magnus Rueping*
Reductive cross-coupling of α-oxy halides enabled by thermal catalysis, photocatalysis, electrocatalysis, or mechanochemistry
Angew. Chem. Int. Ed. **2022**, 61, e202204212 DOI 10.1002/anie.202204212
 Hot Paper
- 24 **Chen Zhu**, Huifeng Yue*, Magnus Rueping*
Nickel catalyzed multicomponent stereodivergent synthesis of olefins enabled by electrochemistry, photocatalysis and photo-electrochemistry
Nat. Commun. **2022**, 13, 3240 DOI 10.1038/s41467-022-30985-2
- 23 Haifeng Chen, Huifeng Yue, **Chen Zhu***, Magnus Rueping*
Reactivity in Nickel-Catalyzed Multi-component Sequential Reductive Cross-Coupling Reactions
Angew. Chem. Int. Ed. **2022**, 61, e202204144 DOI 10.1002/anie.202204144
- 22 Junwei Wang[#], Lei Zhao[#], **Chen Zhu**[#], Ben Ma, Xiaolong Xie, Jian Liu, Shiyun He, Magnus Rueping, Kun Zhao, Lihong Hu
Transition-metal-catalyzed switchable divergent cycloaddition of para-quinone methides and vinyl ethylene carbonates: Access to different sized medium-sized heterocycles
Chin. Chem. Lett. **2022**, 33, 4549–4558 DOI 10.1016/j.ccllet.2022.01.063
- 21 **Chen Zhu**[#], Serik Zhumagazy[#], Huifeng Yue*, Magnus Rueping*
Metal-free C–Se cross-coupling enabled by photoinduced inter-molecular charge transfer
Chem. Commun. **2022**, 58, 96–99 DOI 10.1039/d1cc06152f
- 20 Huifeng Yue^{**}, **Chen Zhu**^{**}, Long Huang, Abhishek Dewanji, Magnus Rueping*
Advances in Allylic and Benzylic C–H Bond Functionalization Enabled by Metallaphotoredox Catalysis
Chem. Commun. **2022**, 58, 171–184 DOI 10.1039/D1CC06285A

2021

- 19 **Chen Zhu**[#], Serik Zhumagazy[#], Huifeng Yue^{*}, Magnus Rueping^{*}
Electrophilic N-Trifluoromethylthiophthalimide as a Fluorinated Reagent in the Synthesis of Acyl Fluorides
Org. Chem. Front. **2022**, 9, 342–346 DOI 10.1039/D1QO01633D
- 18 Long Huang, Tengfei Ji, **Chen Zhu**, Huifeng Yue, Nursaya Zhumabay, Magnus Rueping^{*}
Bioinspired desaturation of alcohols enabled by photoredox proton-coupled electron transfer and cobalt dual catalysis
Nat. Commun. **2022**, 13, 809 DOI 10.1038/s41467-022-28441-2
- 17 **Chen Zhu**[#], Huifeng Yue[#], Jiaqi Jia, Magnus Rueping^{*}
Nickel-Catalyzed C–Heteroatom Cross-Coupling Reactions under Mild Conditions via Facilitated Reductive Elimination
Angew. Chem. Int. Ed. **2021**, 60, 17810–17831 DOI 10.1002/anie.202013852
- 16 **Chen Zhu**, Ajit Prabhakar Kale, Huifeng Yue^{*}, Magnus Rueping^{*}
Redox-Neutral Cross-Coupling Amination with Weak N-Nucleophiles: Arylation of Anilines, Sulfonamides, Sulfoximines, Carbamates, and Imines via Nickel electrocatalysis
JACS Au **2021**, 1, 1057–1065 DOI 10.1021/jacsau.1c00148
- 15 Bholanath Maity, **Chen Zhu**, Magnus Rueping^{*}, Luigi Cavallo^{*}
Mechanistic Understanding of Arylation vs Alkylation of Aliphatic Csp³–H Bonds by Decatungstate–Nickel Catalysis
ACS Catal. **2021**, 11, 13973–13982 DOI 10.1021/acscatal.1c04142

2020

- 14 Huifeng Yue[#], **Chen Zhu**[#], Rajesh Kancharla, Fangying Liu, Magnus Rueping^{*}
Regioselective Hydroalkylation and Arylalkylation of Alkynes by Photoredox/Nickel Dual Catalysis: Application and Mechanism
Angew. Chem. Int. Ed. **2020**, 59, 5738–5746 DOI 10.1002/anie.201914061
- 13 **Chen Zhu**[#], Huifeng Yue[#], Pavlo Nikolaienko, Magnus Rueping^{*}
Merging Electrolysis and Nickel Catalysis in Redox Neutral Cross-Coupling Reactions: Experiment and Computation for Electrochemically Induced C–P and C–Se Bonds Formation
CCS Chem. **2020**, 2, 179–190 DOI 10.31635/ccschem.020.201900112
- 12 **Chen Zhu**[#], Huifeng Yue[#], Lingling Chu, Magnus Rueping^{*}
Recent advances in photoredox and nickel dual-catalyzed cascade reactions: pushing the boundaries of complexity
Chem. Sci. **2020**, 11, 4051–4064 DOI 10.1039/d0sc00712a
Hot Paper (Top 0.1%) · Highly Cited Paper
- 11 Bholanath Maity, **Chen Zhu**, Huifeng Yue, Long Huang, Moussab Harb, Yury Minenkov, Magnus Rueping^{*}, Luigi Cavallo^{*}
Mechanistic Insight into the Photoredox–Nickel–HAT Triple Catalyzed Arylation and Alkylation of α -Amino Csp³–H Bonds
J. Am. Chem. Soc. **2020**, 142, 16942–16952 DOI 10.1021/jacs.0c05010
- 10 Gadde Sathish Kumar, Anatoly Peshkov, Aleksandra Brzozowska, Pavlo Nikolaienko, **Chen Zhu**, Magnus Rueping^{*}
Nickel-Catalyzed Chain-Walking Cross-Electrophile Coupling of Alkyl and Aryl Halides and Olefin Hydroarylation Enabled by Electrochemical Reduction
Angew. Chem. Int. Ed. **2020**, 59, 6513–6519 DOI 10.1002/anie.201915418
Highly Cited Paper

2019

- 9 Long Huang, **Chen Zhu**, Liang Yi, Huifeng Yue, Rajesh Kancharla, Magnus Rueping*
Cascade Cross-Coupling of Dienes: Photoredox and Nickel Dual Catalysis
Angew. Chem. Int. Ed. **2020**, 59, 457–464 DOI 10.1002/anie.201911109
- 8 **Chen Zhu**[#], Huifeng Yue[#], Bholanath Maity, Iuliana Atodiresei, Luigi Cavallo*,
 Magnus Rueping*
A Multicomponent Synthesis of Stereodefined Olefins via Nickel Catalysis and Single Electron/Triplet Energy Transfer
Nat. Catal. **2019**, 2, 678–687 DOI 10.1038/s41929-019-0311-x
- 7 Huifeng Yue[#], **Chen Zhu**[#], Li Shen, Qiuyang Geng, Katharina J. Hock, Tingting Yuan,
 Luigi Cavallo*, Magnus Rueping*
Nickel-catalyzed C–N bond activation: activated primary amines as alkylating reagents in reductive cross-coupling
Chem. Sci. **2019**, 10, 4430–4435 DOI 10.1039/c9sc00783k
 Highly Cited Paper
- 6 Lin Guo, Watchara Srimontree, **Chen Zhu**, Bholanath Maity, Xiangqian Liu, Luigi Cavallo*,
 Magnus Rueping*
Nickel-catalyzed Suzuki–Miyaura cross-couplings of aldehydes
Nat. Commun. **2019**, 10, 1957 DOI 10.1038/s41467-019-09766-x
- 5 Rajesh Kancharla, Krishnamoorthy Muralirajan, Bholanath Maity, **Chen Zhu**, Patricia E. Krach,
 Luigi Cavallo, Magnus Rueping*
Oxidative Addition to Palladium(0) Made Easy through Photoexcited-State Metal Catalysis: Experiment and Computation
Angew. Chem. Int. Ed. **2019**, 58, 3412–3416 DOI 10.1002/anie.201811439
 Cover Picture

2018

- 4 Huifeng Yue[#], **Chen Zhu**[#], Magnus Rueping*
Cross-Coupling of Sodium Sulfinates with Aryl, Heteroaryl, and Vinyl Halides by Nickel/Photoredox Dual Catalysis
Angew. Chem. Int. Ed. **2018**, 57, 1371–1375 DOI 10.1002/anie.201711104
 Highly Cited Paper
- 3 Huifeng Yue, **Chen Zhu**, Magnus Rueping*
Catalytic Ester to Stannane Functional Group Interconversion via Decarbonylative Cross-Coupling of Methyl Esters
Org. Lett. **2018**, 20, 385–388 DOI 10.1021/acs.orglett.7b03669

2017

- 2 Huifeng Yue, Lin Guo, Hsuan-Hung Liao, Yunfei Cai, **Chen Zhu**, Magnus Rueping*
Catalytic Ester and Amide to Amine Interconversion: Nickel-Catalyzed Decarbonylative Amination of Esters and Amides by C–O and C–C Bond Activation
Angew. Chem. Int. Ed. **2017**, 56, 4282–4285 DOI 10.1002/anie.201611819
 Highly Cited Paper

2015

- 1 Xiaoxiao Song, Qijian Ni, **Chen Zhu**, Gerhard Raabe, Dieter Enders*
Asymmetric N–Heterocyclic Carbene Catalyzed Annulation of 2-Alkenylbenzothiazoles with α -Chloro Aldehydes
Synthesis **2015**, 47, 421–428 DOI 10.1055/s-0034-1379369