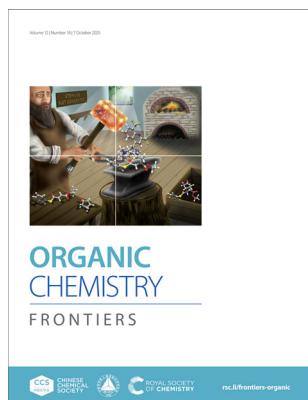


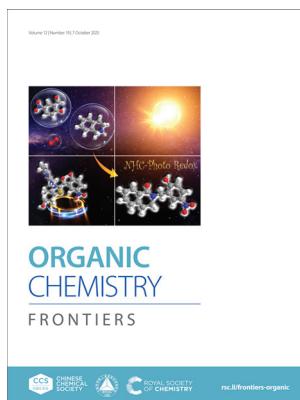
IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 12(19) 5109–5358 (2025)

**Cover**

See Rafał Szabla,
Rafał Kowalczyk *et al.*,
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PROFILE

5120

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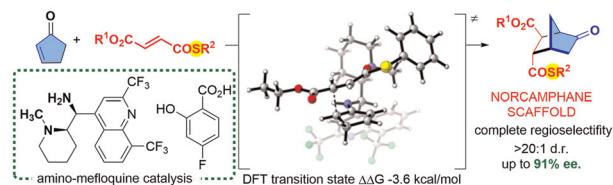


RESEARCH ARTICLES

5124

Tunable thiofumarate stereoselective cycloadditions via aminomefloquine catalysis

Radosław Suchanek, Michał Błauciak,
Anna Spyszkiewicz, Błażej Dziuk,
Przemysław J. Boratyński, Rafał Szabla* and
Rafał Kowalczyk*



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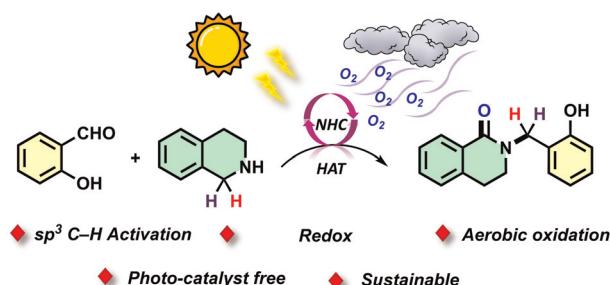
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RESEARCH ARTICLES

5136

Cooperative N-heterocyclic carbene/photocatalysis: visible-light-promoted tandem α -sp³ C–H activation and reductive N-alkylation of tetrahydroisoquinoline

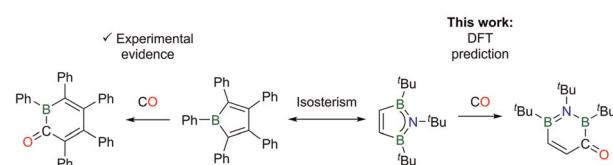
Karthiyayini Gnanaoli, Deepan Babu Rajkumar and C. Uma Maheswari*



5146

Electrophilic insertion and ring growth in 1,2,5-azadiborolidines: theoretical evidence for boron-driven expansion

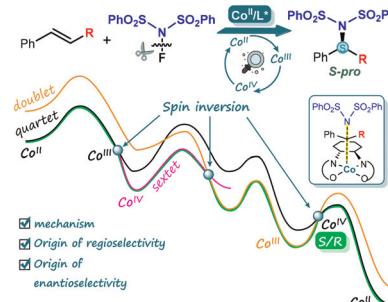
Victor A. Lucas-Rosales, Miguel A. Vázquez, Gabriel Merino,* Albert Poater* and J. Oscar C. Jiménez-Halla*



5157

Cobalt-catalyzed enantioselective radical hydroamination of alkenes with N-fluorobenzenesulfonimides: theoretical insight of enantio-determining S_N2-like reductive elimination

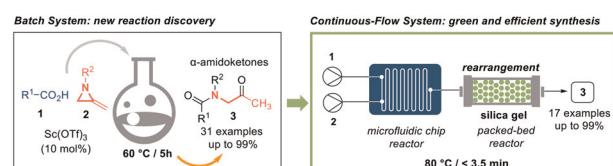
Yu-Jie Liang, Bo Zhu, Ya-Bin Jiang and Wei Guan*



5168

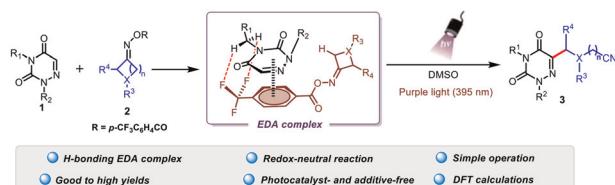
A cascade Markovnikov addition/Lewis acid-catalyzed rearrangement of methyleneaziridines and carboxylic acids: continuous-flow synthesis of α -amidoketones

Bin Pan, Hao-Tian Sun, Feng Li, Qing-Bao Zhang, Shan-Shan Zhang, Jia-Hao Wang, Meng-Rui Xu, Jing-Tian Ge, Zi-Qing Hu, Shang Lv, Guo-Fu Huang* and Li-Juan Feng*



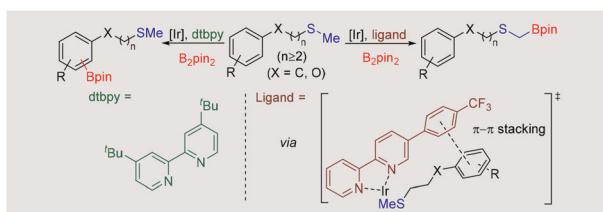
RESEARCH ARTICLES

5175

Photoinduced direct C–H cyanoalkylation of azauracils *via* electron donor–acceptor complex activation

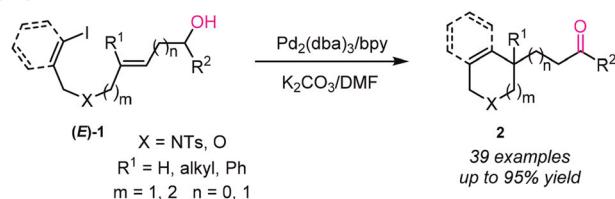
Zhi-Qiang Zhu,* Xiao-Long Huang, Xi Yang, Qian-Qian Xu,* Huo-Yu Rao, Zhen-Zhen Xu, Zong-Bo Xie and Zhang-Gao Le*

5183

Selective α -Me–C(sp³)–H borylation of methyl sulfides controlled by substrate–ligand electrostatic interaction

Rui-Mu Yu, Jin-Ping Li, Sumire Tobe, Shunsuke Yabu, Kanami Sugiayama, Li-Sheng Wang, Hirofumi Sato, Masahiro Higashi,* Yoichiro Kuninobu* and Hong-Liang Li*

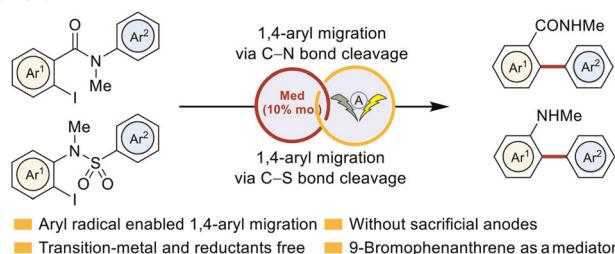
5192



Palladium-catalyzed intramolecular redox-relay Heck cyclization: access to heterocycles bearing all-carbon quaternary centers

Linjun Qi, Rongjing He, Xiaofeng Tong and Shuling Yu*

5198



Organometallic enabled electrochemical 1,4-aryl migration of N-aryl-2-iodobenzamides/N-sulfonyl-2-iodoanilines to access biaryls

Xiao-Qing Xie, Li-Tong Xiao, Wei Zhou, Yanli Wu, Haixin Ding, Ruchun Yang,* Xian-Rong Song, Mu-Jia Luo* and Qiang Xiao*

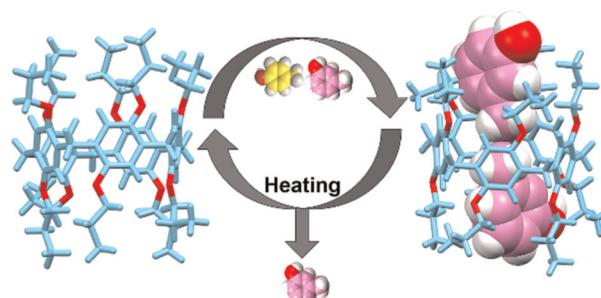


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5205

Selective separation of *meta*- and *para*-cresol using nonporous adaptive crystals of perpropoxylated pillar[5]arene

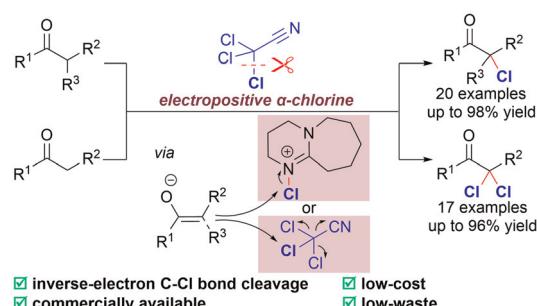
Hongyan Zhang, Ming Li,* Li Shao, Haozhong Liang, Bin Hua,* Niveen M. Khashab and Feihe Huang*



5211

Active electropositive α -chlorine: trichloroacetonitrile as an electrophilic chlorination reagent

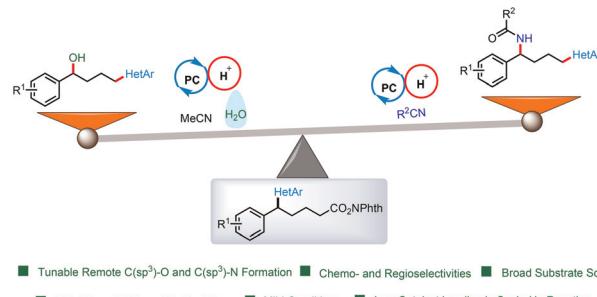
Bingxing Zhou, Lei Bai* and Changming Xu*



5218

Brunsted acid enabled metal-free remote oxygenation and amidation of unstrained C–C bonds via 1,4-heteraryl migration chaperoned radical-polar crossover

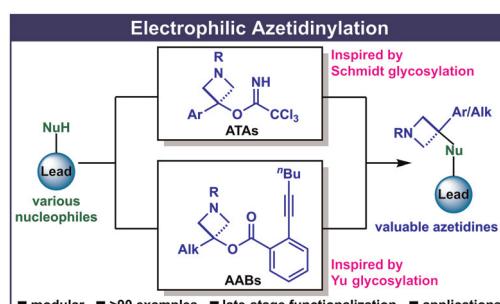
Xiaofei Xie, Yun Shi,* Yukun Li, Jinge Gui, Yingguang Zhu* and Kang Chen*



5226

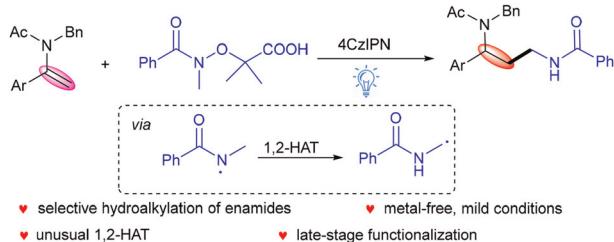
Modular access to functionalized azetidines via electrophilic azetidinylation

Dayu Tian, Guang Chen, Xian Xiao, Xiaocheng Wang and Hai-Jun Zhang*



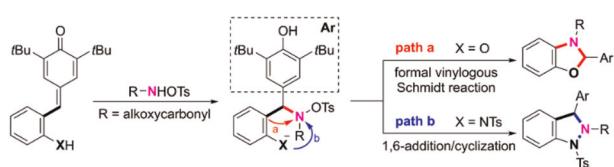
RESEARCH ARTICLES

5239

**Photocatalytic anti-Markovnikov hydroalkylation of 2-aryl enamides via 1,2-hydrogen atom transfer of amidyl radicals**

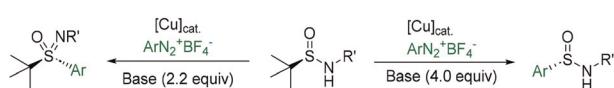
Chengli Xiang, Lingli Liu, Changduo Pan* and Jin-Tao Yu*

5245

**A formal vinylogous Schmidt reaction: nitrogen insertion of para-quinone methides**

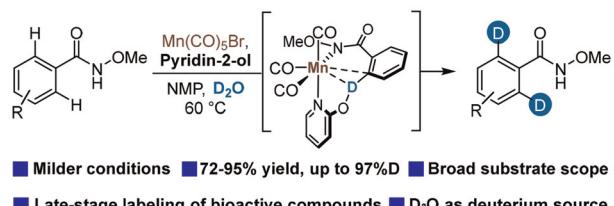
Bo Wang, Chen Zhu, Yanhao Dong, Chen Kong, Hanxiao Zhu, Tiandi Ding, Guoyue Wei, Yatong Yang, Xin Zhao, Magnus Rueping, Qingqiang Yao,* Kun Zhao,* Yan Li* and Ying Zhi*

5252

**Reagent-controlled selective synthesis of sulfinamides and sulfoximines from *tert*-butanesulfinamide**

Wenbo Zhang, Yanhua Ouyang, Xi Zou* and Bing Gao*

5258

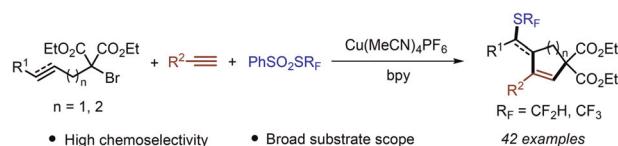
**2-Pyridone-enabled manganese-catalyzed *ortho*-selective deuteration of aromatic amides with D₂O**

Tao Qian, Zhi-Jiang Jiang, Jinfeng Zheng, Jia Chen,* Zhanghua Gao* and Jian-Fei Bai*

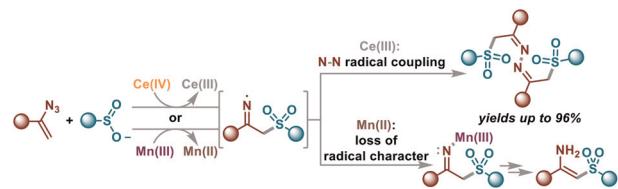


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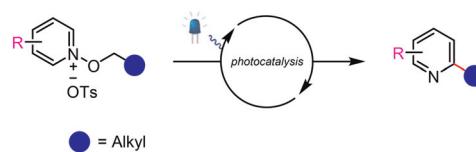
5265

Cascade cyclization/fluoromethylthiolation of alkynes, unsaturated α -bromocarbonyls and PhSO_2SR_F Cui Zhang, Yun-Tao Shen, Ning-Xin Xia,
Xin-Song Zhou, Li-Bo Yang, Jia Hu and Ya-Min Li*

5271

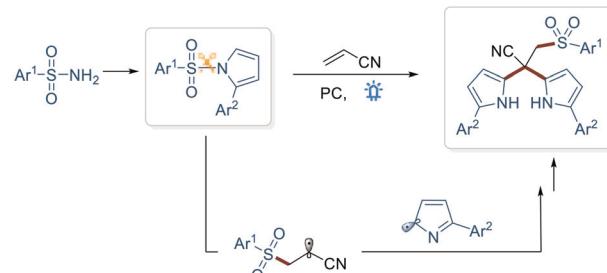
 α -Sulfonylated ketazine synthesis from vinyl azides and sodium sulfinate using CAN: radical C–S/N–N coupling cascade as a key reaction pathwayMikhail M. Doronin, Alexander S. Klikushin,
Olga M. Mulina, Michael G. Medvedev, Vera A. Vil',
Liang-Nian He and Alexander O. Terent'ev*

5279

Photoinduced β -fragmentation for efficient pyridine alkylation via *N*-alkoxypyridinium saltsHeng Liu, Fangrui Wu, Zhidong Wan, Changhai Yue,
Changsheng Wang, Chengkou Liu, Yuguang Li,
Zheng Fang, Hong Qin* and Zhao Yang*

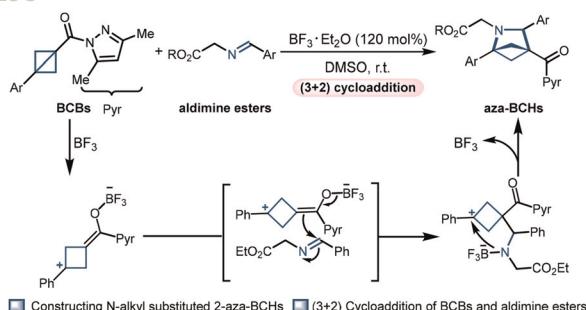
- Atom- and step-economy, mild conditions
- 34 examples, up to 90% yield
- Low catalyst loading (0.5 mol %)
- Excellent C2 selectivity

5285

Pyrrolyl-radical-based di-/tri-functionalization of alkenes using sulfonyl pyrroles via radical/radical cross-couplingJia-Xuan Luo, Ze Zhuang, Yu-Zhang Huang,
Xiaohui Kang and Yong Luo*

RESEARCH ARTICLES

5293

**BF₃-enabled unusual (3 + 2) cycloaddition of bicyclobutanes with aldimine ester: access to 2-azabicyclo[2.1.1]hexanes**

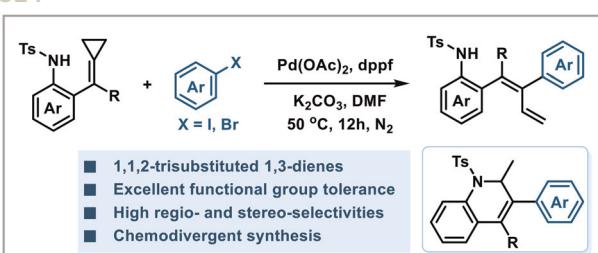
Qin Jiang, Jianyang Dong,* Dejiang Yu, Fang Lei, Ting Li, Tengfei Kang, Juan Fan, Huaming Sun and Dong Xue*

5300

**A photocatalytic electron-rich acceptor-involved EDA complexes for Markovnikov addition of alkynes with *N*-sulfonyl-azoles**

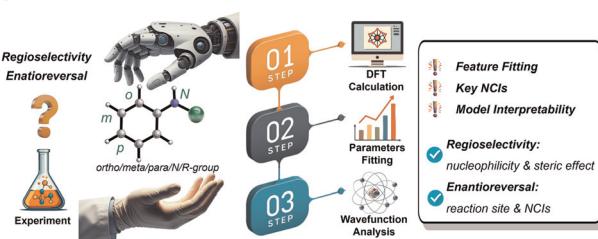
Jinhua Liu, Tang Xiao, Weixiong Chen, Zongjing Hu, Yun Zhao and Shunying Liu*

5314

**Chelation-controlled stereospecific ring-opening arylation of α -aminoaryl-tethered alkylidenecyclopropanes: stereoselective synthesis of polysubstituted conjugated dienes**

Miao-Miao Ji, Ying Tang, Wen-Mei Luo, Yong-Yu He, Ai-Jun Ma* and Jin-Bao Peng*

5321

**NCI-driven regioselectivity and enantio-reversal in chiral phosphoric acid-catalyzed arylamine functionalization**

Zi-Hao Li, Abing Duan* and Shu-Yu Zhang*

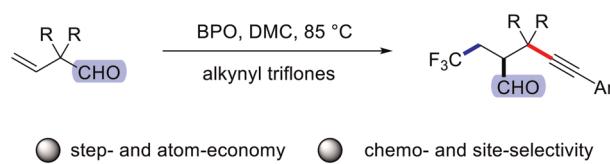


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5333

1,2,3-Trifunctionalization of α,α -disubstituted vinyl aldehydes with concomitant radical 1,2-migration of formyl group

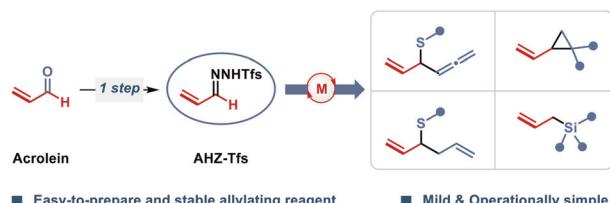
Xiong Yang, Jinmin Luo, Ji Li, Yao Yuan* and Gangguo Zhu*



5340

Acrolein triftosylhydrazone: a versatile vinylcarbene reagent

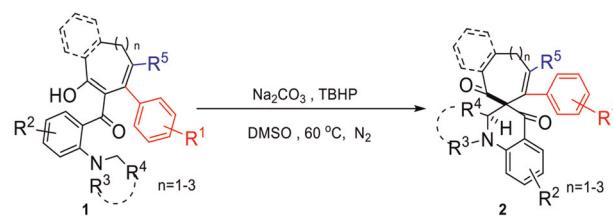
Ying Gan, Jin Zhang, Karunanidhi Murali, Yongquan Ning,* Yong Wu, Jacek Mlynarski and Zhaozhong Liu*



5346

Construction of spirotetrahydroquinolines fused with medium-sized rings via TBHP/base-promoted spirocyclization reactions

Peng He, Yuanyang Mu, Zongkang Wang, Nana Fei, Chengyu Wang* and Yanzhong Li*



- Transition metal free
- Mild reaction condition
- 20 examples up to 84% yield
- Atom- and step-economical

5351

Access to (*E*)- δ -vinyl-homoallylic alcohols/ethers/pyrazoles by ring-opening nucleophilic substitution of cyclopropyl allylic alcohols

Yulu Zhang, Ying Shao, Jiangtao Sun* and Shengbiao Tang*

