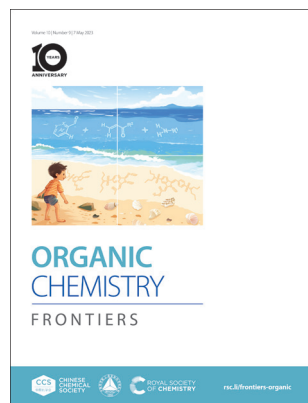


IN THIS ISSUE

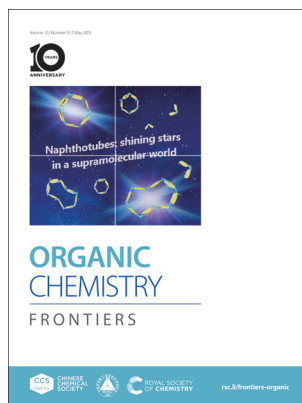
ISSN 2052-4129 CODEN OCFRA8 10(9) 2117-2386 (2023)



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See Xianwei Li *et al.*,
pp. 2128–2137.

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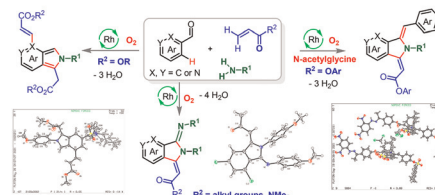
RESEARCH ARTICLES

2128

Ligand-assisted olefin-switched divergent oxidative Heck cascade with molecular oxygen enabled by self-assembled imines

Bairong Liu, Jianhang Rao, Weibing Liu, Yang Gao,
Yanping Huo, Qian Chen and Xianwei Li*

Olefin substrates enabled divergent oxidative Heck reaction:

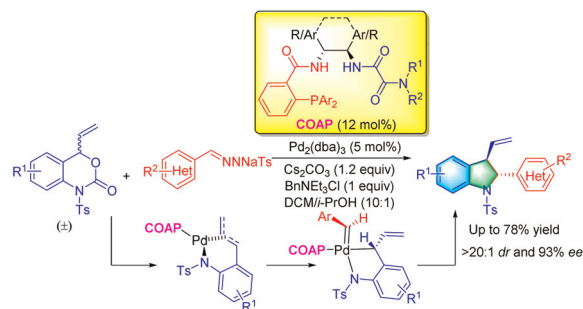


- Key features:**
- Olefins enabled divergent oxidative Heck reaction
 - *In situ* assembly of directing groups
 - Molecular oxygen as the terminal oxidant
 - Compatible with strongly coordinating N-heterocycles

2138

Chiral oxalamide phosphine (COAP)-Pd-catalyzed enantioselective cascade formal [4 + 1] annulation for entioenriched 2,3-disubstituted indolines and further DFT study on regio- and stereocontrol

Sheng-Suo Zhou, Jun-Hao Shen, Wen-Kai Liu,
Xing-Yun Sun, Jia-Yu Song, Zheng Wang,*
Zheng-Hang Qi* and Xing-Wang Wang*



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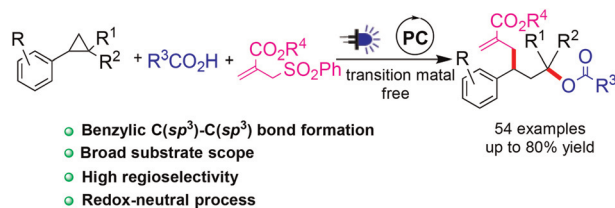


RESEARCH ARTICLES

2147

Visible light mediated regioselective 1,3-oxylallylation of aryl cyclopropanes under redox-neutral conditions

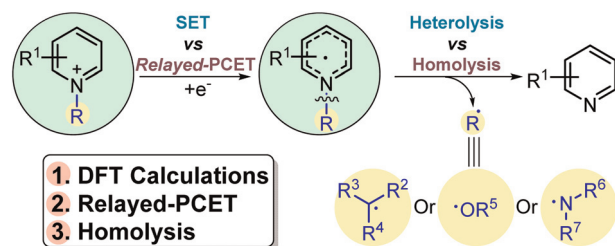
Ding-Xing Wang, Hui Wang, Yao Xu, Chi Zhang* and Chao Feng*



2155

Deaminative radical reactions via relayed proton-coupled electron transfer

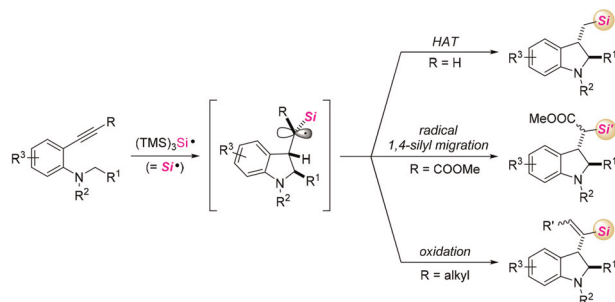
Qianqian Shi, Kuohong Chen, Limin Guo, Lili Han, Donghui Wei* and Yu Lan*



2165

Synthesis of structurally diverse silicon-incorporated indolines via silyl radical-triggered radical cascade reactions

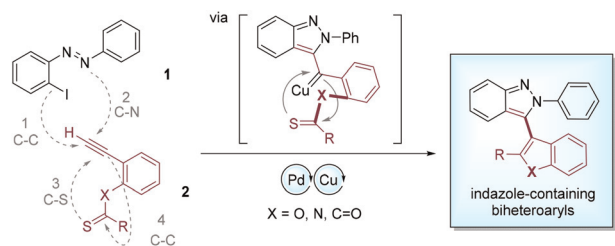
Tian Ye, Jinjin Zhao, Wan-Xin Zheng, Junmin Zhang, Zhijuan Wang* and Feng-Lian Zhang*



2171

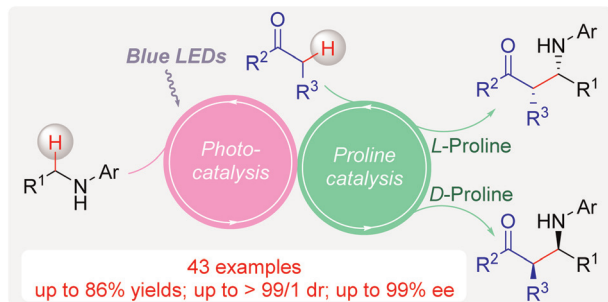
Domino Sonogashira coupling/metal carbene-involved annulation enabled by Pd/Cu relay catalysis: rapid assembly of indazole-containing biheteroaryls

Ruiming Ding, Haili Cui, Yongyan Zhu, Yao Zhou, Huaming Tao* and Shaoyu Mai*



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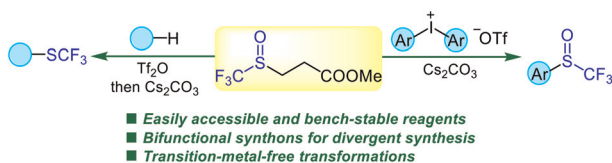
2177



Cooperative photocatalysis and L-/D-proline catalysis enables enantioselective oxidative cross-dehydrogenative coupling of acyclic benzylic secondary amines with ketones

Chao-Jiu Long, Hong-Ping Pu, Ya-Nan Zhao, Yan-Hong He* and Zhi Guan*

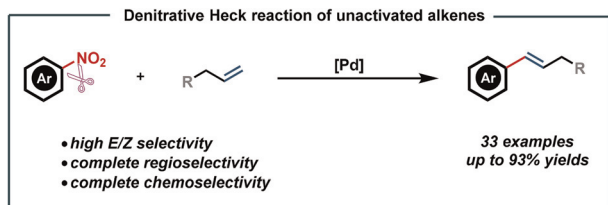
2186



β -Trifluorosulfonyl esters: tuneable reagents for switchable trifluoromethylsulfonylation and C–H trifluoromethylthiolation

Wen Liu, Yan Zhang, Shuya Xing, Huilin Lan, Xinrui Chen, Ying Bai* and Xinxin Shao*

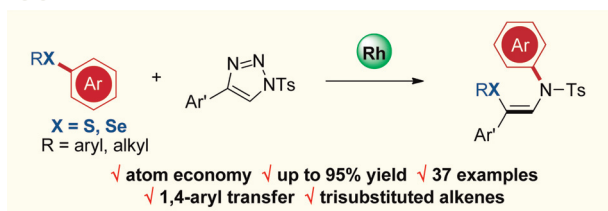
2193



Denitrative Mizoroki–Heck reaction of unactivated alkenes

Fei Zhang, Fei Wang, Yao Zhao, Rizhi Chen and Xiaojin Wu*

2198



A rhodium-catalyzed ylide formation/Smiles rearrangement reaction of chalcogenide ether and triazoles

Jiafeng He, Xun-Shen Liu, Mingjia Li, Shaoting Peng, Zhi-Yao Si and Lu Liu*

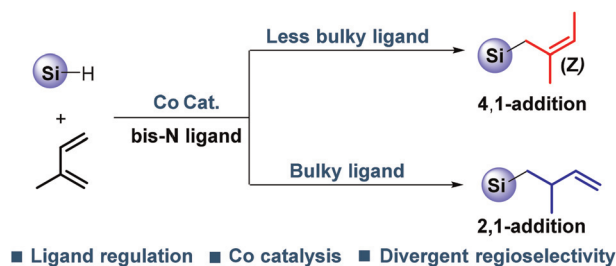


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2204

Ligand-controlled regiodivergence in cobalt-catalyzed hydrosilylation of isoprene

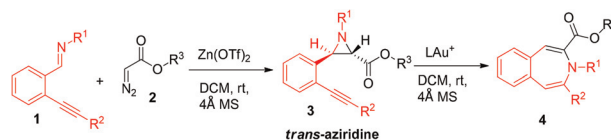
Sa-Na Yang, Chang-Hui Liu, Li-Bowen He, Hao Zheng, Chang-Sheng Kuai,* Boshun Wan, Ding-Wei Ji* and Qing-An Chen*



2211

Relay Zn(II)- and Au(I)-catalyzed aziridination/cyclization/ring expansion sequence to form 3-benzazepine derivatives

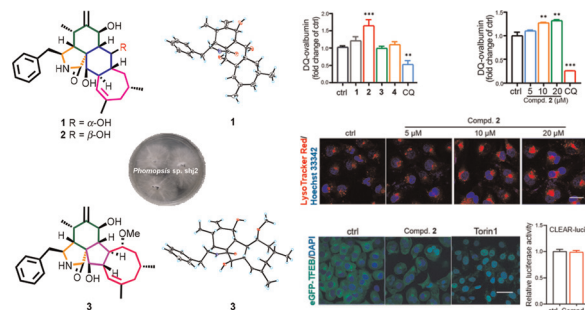
Sudhakar Dattatray Tanpure, Rahul Dadabhau Kardile and Rai-Shung Liu*



2218

Phomopsischalins A–C, polycyclic-fused cytochalasins from the endophytic fungus *Phomopsis sp. shj2* and their abilities to induce lysosomal function

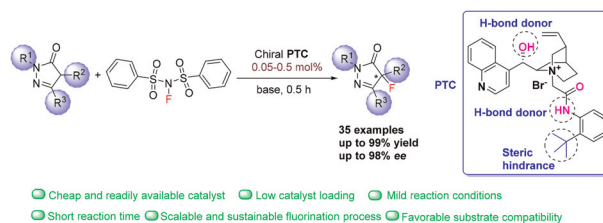
Rong Chen, Li-Jing Guo, Xue-Dan Li, Xing-Ren Li, Kun Hu, Jian-Wei Tang, Zhen-Nan Ye,* Bing-Chao Yan* and Pema-Tenzin Puno*



2226

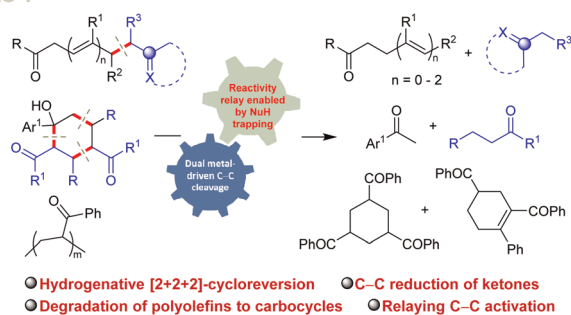
Fast, highly enantioselective, and sustainable fluorination of 4-substituted pyrazolones catalyzed by amide-based phase-transfer catalysts

Yakun Wang,* Shuaifei Wang, Yufeng Wu, Ting Zhao, Jie Liu, Junlin Zheng, Lin Wang, Jieli Lv and Tao Zhang*



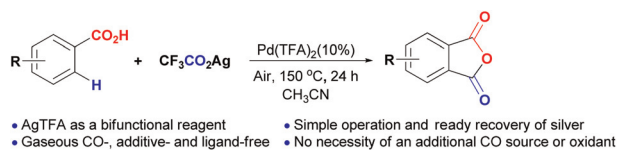
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Controllable carbonyl-assisted C(sp³)-C(sp³) bond reduction and reorganization

Shengke Wang, Yitu Wang, Kun Hu, Kai Wang and Xigeng Zhou*

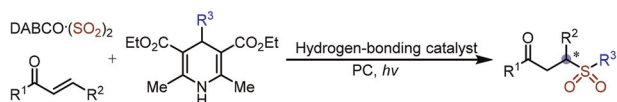
2243



Silver trifluoroacetate as a bifunctional reagent for palladium-catalyzed oxidative carbonylative [4 + 1] annulation of aromatic acids

Zhuang-Zhuang Li, Wan-Di Li, Juan Fan, Jun-Ting Li, Zhong-Wen Liu and Xian-Ying Shi*

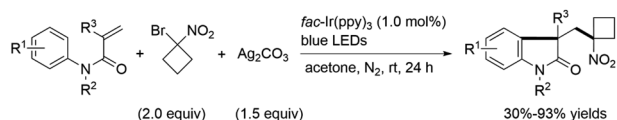
2251



Enantioselective synthesis of chiral sulfones by hydrogen-bonding/organophotoredox co-catalyzed asymmetric sulfonylation

Jian-Qiang Chen, Qiangwei Li, Wenlin Xie and Jie Wu*

2257

*gem*-Bromonitrocyclobutane induced radical cyclization of acrylanilides to construct 2-oxindoles via photoredox catalysis

Yawen Guo, Shanshan Ma, Lin Shi, Lidong Liu, Xingyu Lei and Peng Jiao*

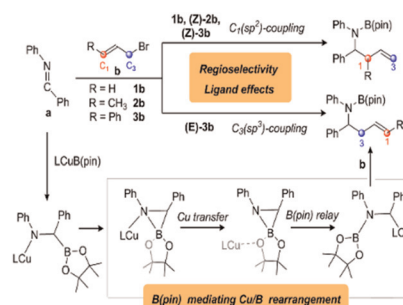


RESEARCH ARTICLES

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An umpolung mechanism of B(pin)-mediated Cu/B rearrangement and origin of regioselectivity for NHC-Cu-catalyzed allylation of imines

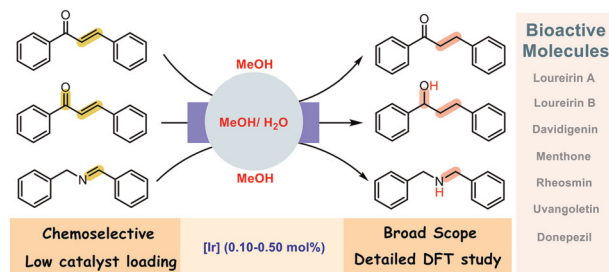
Xinhua Jia, Qiong Wang,* Jianbiao Liu, Wenjuan Wang, Chuanzhi Sun, Fang Huang, Chong Yang and Dezhan Chen*



2274

Utilization of methanol for condensation interrupted chemoselective transfer hydrogenation of C=C, C=O, and C=N bonds under low catalyst loading

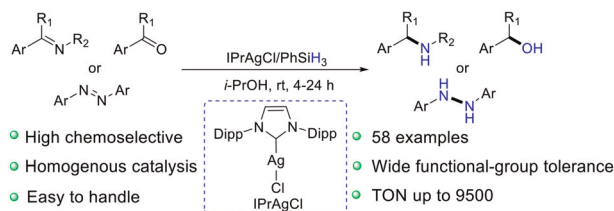
Anirban Sau, Divya Mahapatra, Sadhan Dey, Dibyajyoti Panja, Saghnik Saha and Sabuj Kundu*



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Chemoselective reduction of imines and azobenzenes catalyzed by silver N-heterocyclic carbene complexes

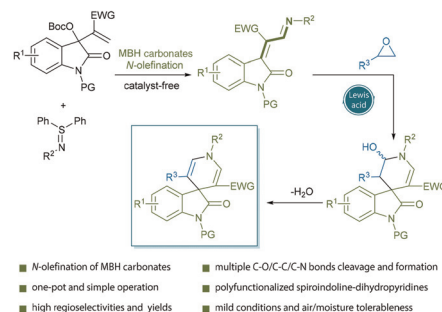
Bo Han,* Hongmei Jiao, Rong Chen, Yuqi Zhang* and Jijiang Wang



2294

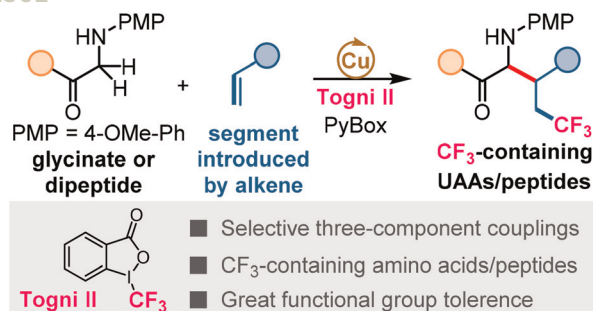
A Sc(OTf)₃-catalyzed one-pot two-step approach for spiro-oxindole dihydropyridine derivatives initiated by N-olefination of MBH carbonates

Zhen-Hui Yan, Run Lu, Cheng Peng,* Jie Tang, Huaying Fang, Gu Zhan, Xiang-Hong He* and Wei Huang*



RESEARCH ARTICLES

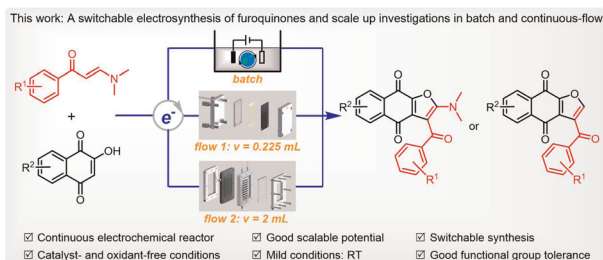
2301



Cu-catalysed three-component C–H trifluoroalkylation of glycine derivatives: access to diverse CF_3 -containing amino acids

Yadong Li, Dengfu Lu* and Yuefa Gong*

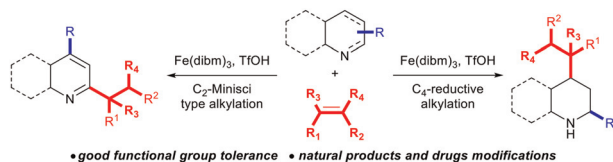
2310



Switchable electrosynthesis of furoquinones in batch and continuous-flow modes

Chengcheng Yuan, Xiangxing Huang, Yaqi Qiao, Wenjing Guan, Chengkou Liu,* Zheng Fang, Yuguang Li and Kai Guo

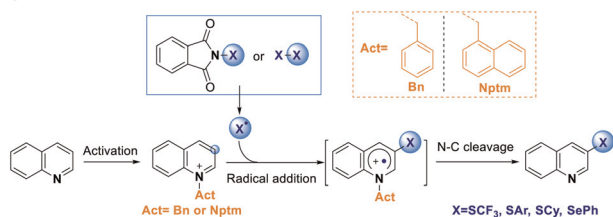
2318



Iron-mediated divergent reductive coupling reactions of heteroarenes with alkenes

Cong Zhang, Yuhang He and Guanghui An*

2324



C3-selective C–H thiolation of quinolines *via* an N-arylmethyl activation strategy

Shun Li, Juan Tang, Yi-Hua Fu, Xue-Li Zheng, Mao-Lin Yuan, Rui-Xiang Li, Zhi-Shan Su, Hai-Yan Fu* and Hua Chen*

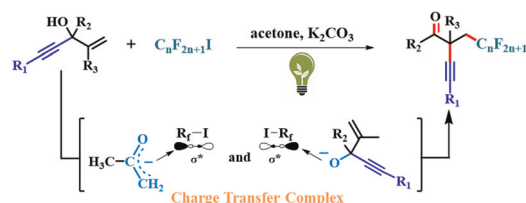


RESEARCH ARTICLES

2332

Photochemical alkynylperfluoroalkylation of unactive alkenes mediated by halogen-bonded charge-transfer complexes

Huangbin Sun, Chang Huang, Xueting Bin, Fuzhi Cui and Guofang Jiang*



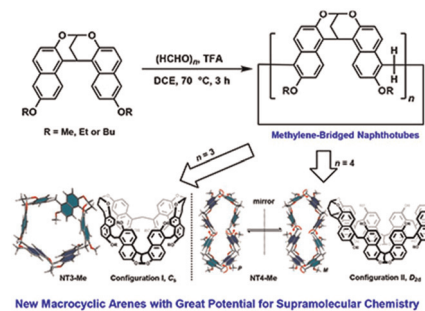
- Transition-metal and photocatalyst free
- Mild reaction conditions
- General: 31 examples, up to 90% yield
- No ligand and additive

HIGHLIGHT

2340

Methylene-bridged naphthotubes: new macrocyclic arenes with great potential for supramolecular chemistry

Miaomiao Yan and Jiong Zhou*



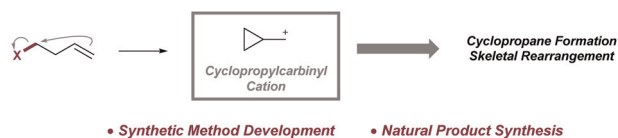
New Macrocyclic Arenes with Great Potential for Supramolecular Chemistry

REVIEWS

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Cyclopropylcarbanyl cation chemistry in synthetic method development and natural product synthesis: cyclopropane formation and skeletal rearrangement

Jiaxin Xie and Guangbin Dong*



- Synthetic Method Development
- Natural Product Synthesis

2359

Gold-catalyzed multicomponent reactions

Akash G. Tathe, Sagar S. Saswade and Nitin T. Patil*

