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IN THIS ISSUE

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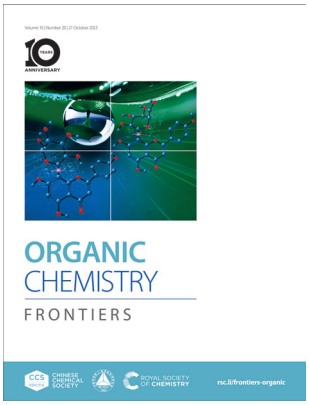

Cover
See Karine N. de Andrade, Rodolfo G. Fiorot *et al.*, pp. 5044–5054.

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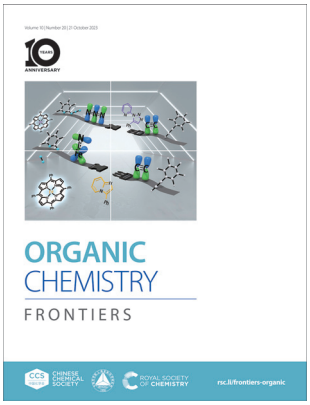

Inside cover
See Yuan-Bin She, Yun-Fang Yang *et al.*, pp. 5055–5063.

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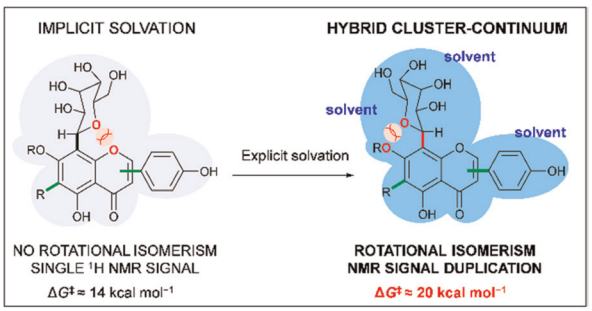

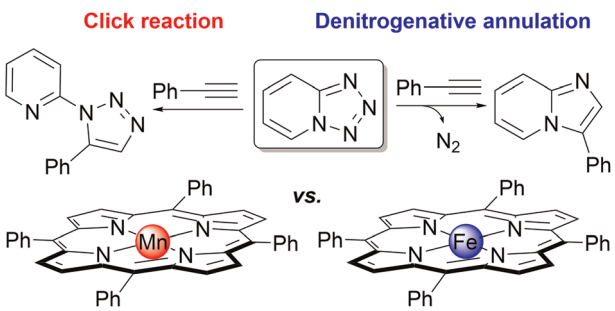

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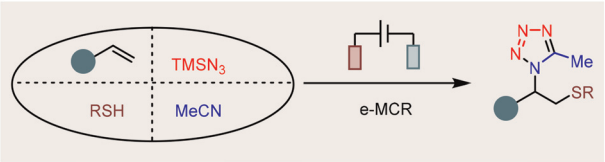

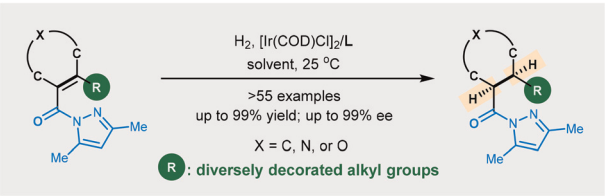

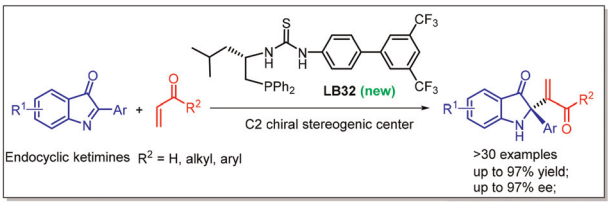

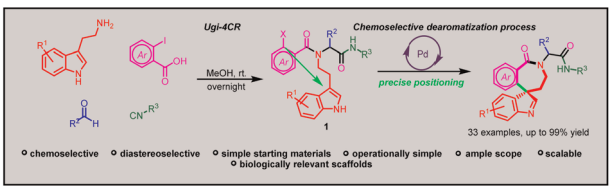

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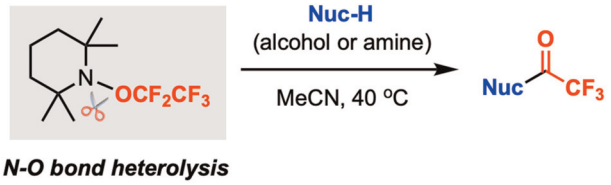

Thermal N–O bond heterolysis of TEMPO-CF_2CF_3 towards trifluoroacetylation of alcohols and amines

Tao Dong, Yihan Tang and Gavin Chit Tsui*

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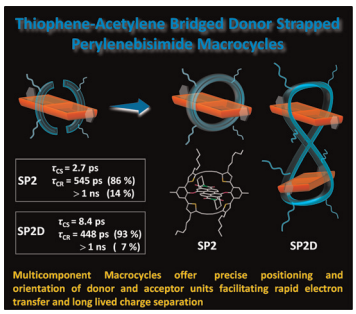
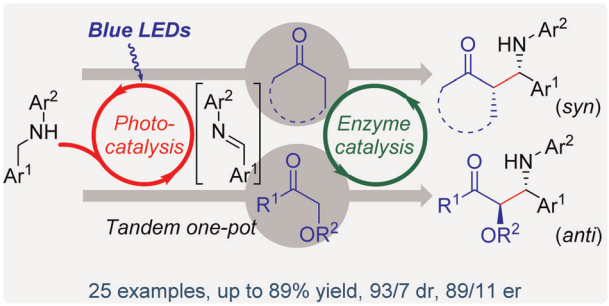


A donor strapped perylene bisimide macrocycle and its lemniscate dimer with extended charge separation

Sairam Dnyaneshwar Veer, Tanmay Goswami, Sapna Ravindranathan, Rajesh Gonnade, Nitika Kharbanda, Hirendra N. Ghosh* and Sukumaran Santhosh Babu*

5108



Direct enantioselective α-alkylation of secondary acyclic amines with ketones by combining photocatalysis and lipase catalytic promiscuity

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

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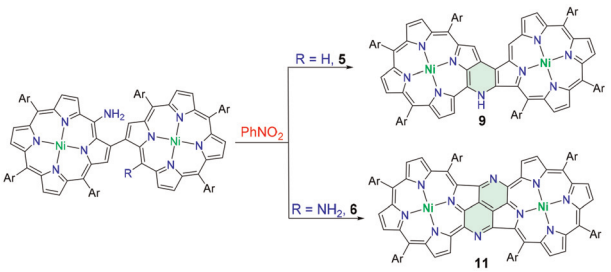

N-Heterocycle-fused Ni(II) porphyrin dimers upon heating of *meso*-amino Ni(II) porphyrins in nitrobenzene

Qingjie Pan, Li Liu, Ying Pan, Mingbo Zhou,* Ling Xu, Yutao Rao, Bangshao Yin, Jianxin Song* and Atsuhiro Osuka

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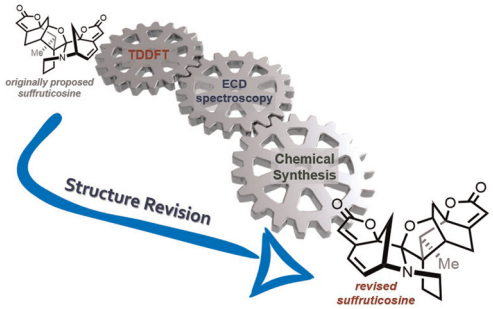

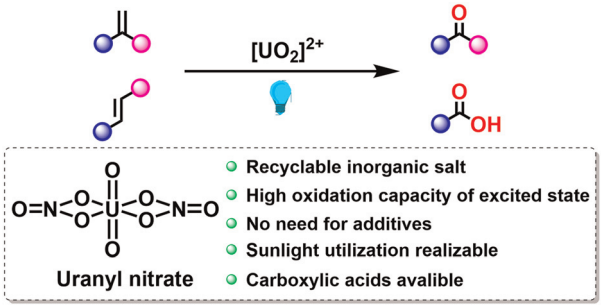

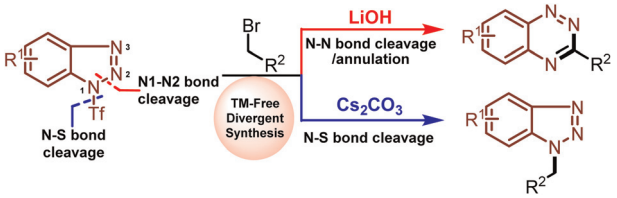

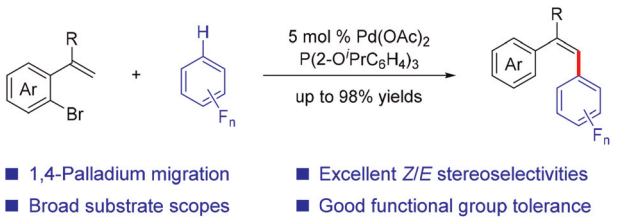

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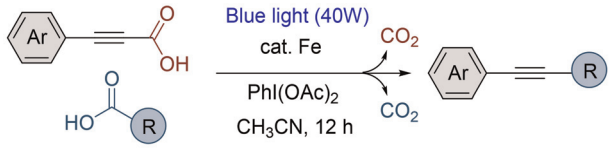

Ar = aryl, R = 1°, 2°, 3° alkyl

Iron-photocatalyzed double decarboxylative coupling reactions of alkynoic acids and alkyl carboxylic acids: access to alkylated alkynes

Hyemin Kang, Seunghwan An and Sunwoo Lee*

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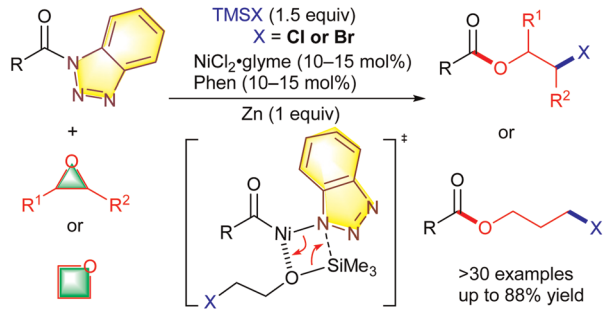

Nickel-catalyzed cross-coupling of *N*-acyl benzotriazoles with oxiranes and oxetanes for the synthesis of β-haloethyl and γ-halopropyl esters

Jin Bai, Erdong Qu, Shangzhang Li, Riqian Zhu, Qinyue Deng* and Wanfang Li*

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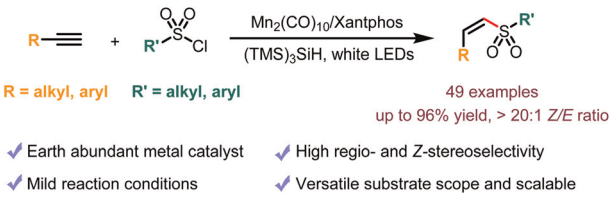

Regio- and stereoselective manganese-catalyzed hydrosulfonylation of alkynes: facile access to *Z*-vinyl sulfones

Jian Han,* Li-Li Zeng, Rong-Hui Huang, Xiao-Qing Feng and Fen-Er Chen*

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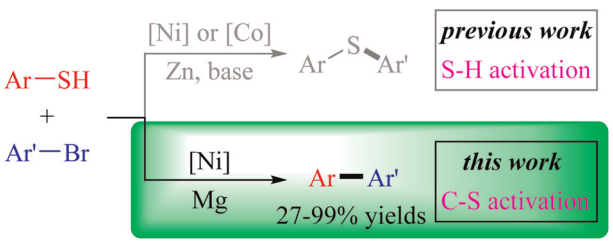

Nickel-catalyzed cross-electrophile coupling of aryl thiols with aryl bromides *via* C–S bond activation

Hao Xu,* Cai-Yu He, Bo-Jie Huo, Jia-Wen Jing, Chengping Miao, Weidong Rao, Xue-Qiang Chu, Xiaocong Zhou* and Zhi-Liang Shen*

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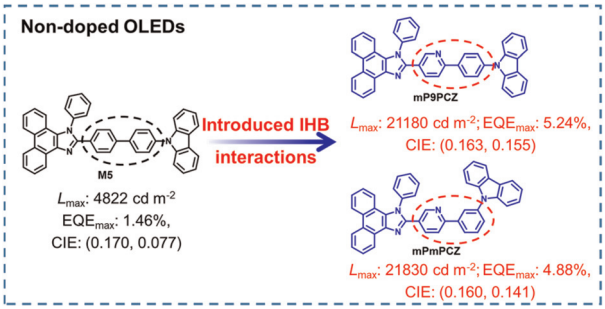

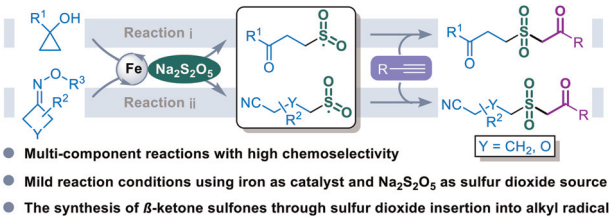

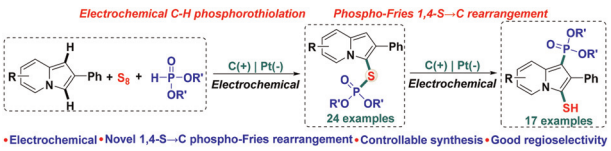

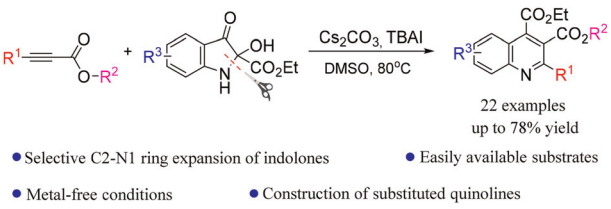

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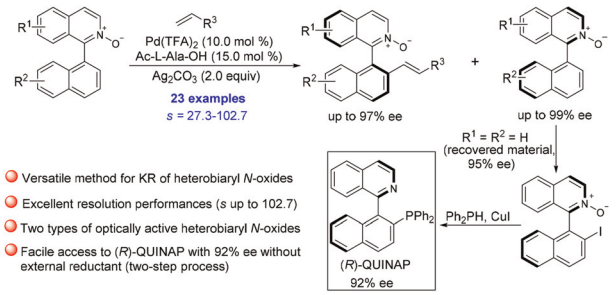

Kinetic resolution of heterobiaryl *N*-oxides by asymmetric C–H olefination: an expeditious access to (*R*)-QUINAP

Qi-Ying Zhang,* Hai-Yang Wang, Songlin Wang, Jing Ma and Hai-Ming Guo*

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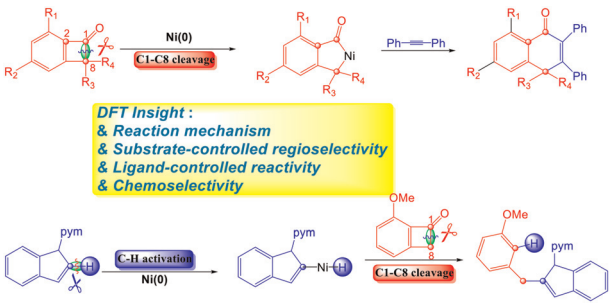

Nickel-catalyzed selective C1–C8 bond cleavage of benzocyclobutenones: theoretical insights into mechanism, substituent effects on regioselectivity, ligand effects on reactivity, and chemoselectivity

Mumin Zhang, Jiangping Yang, Wei Rong and Juan Li*

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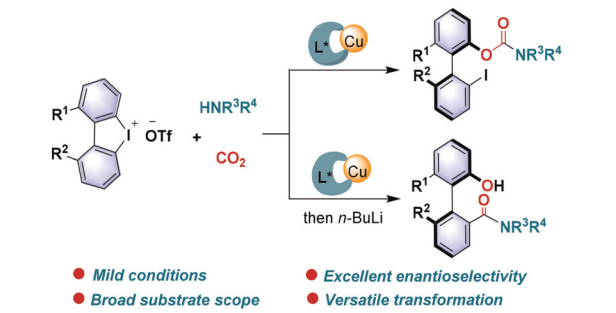

Enantioselective synthesis of axially chiral carbamates and amides with carbon dioxide *via* copper catalysis

Bangxiong Kang, Lu Wang, Xihu Sun, Hongjian Liu, Zhonglin Wen, Yanwei Ren, Chaorong Qi* and Huanfeng Jiang*

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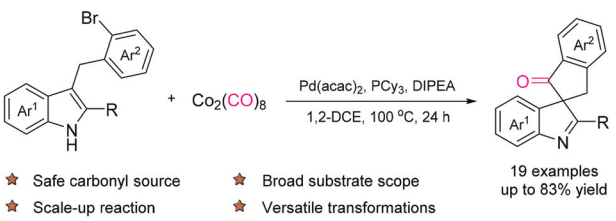

Dearomatization of indoles *via* palladium-catalyzed carbonylation using $Co_2(CO)_8$ as the carbonyl source leading to carbonyl-containing spiroindolenines

Weiming Hu,* Jiali Huang, Wenting Wu, Wenting Guo, Gang Gao, Xiaoqin Pei, Huiyan Wang, Chuanzhou Tao and Huayou Hu

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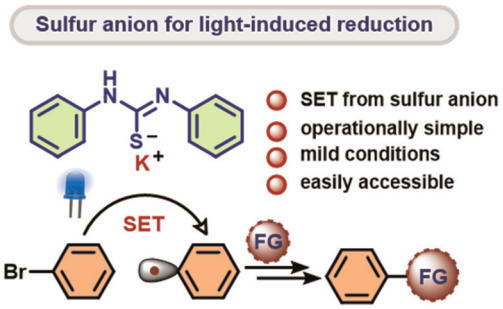

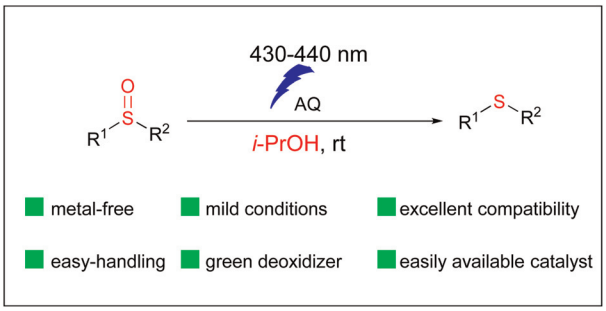

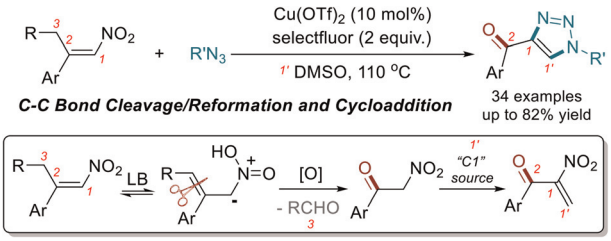

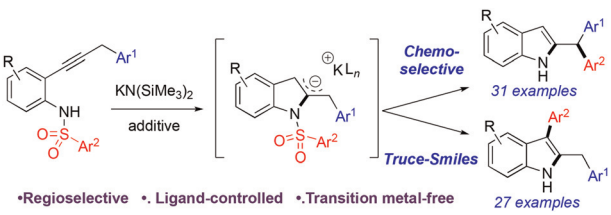

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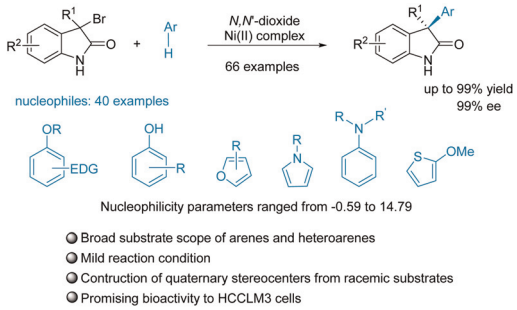
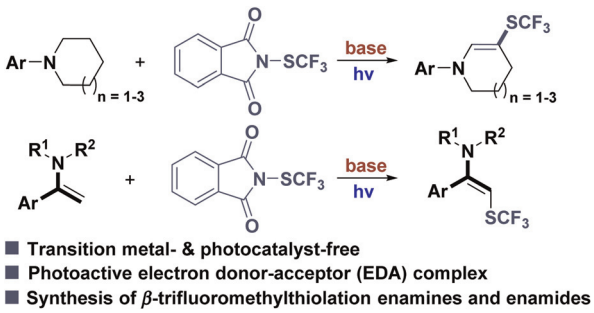


Asymmetric catalytic Friedel–Crafts alkylation with arenes and heteroarenes: construction of 3,3-disubstituted oxindoles

Tinghui Zhang, Ziwei Zhong, Zi Zeng, Zitong Zhu, Fei Wang, Yuxin Zhang, Xiaohua Liu, Maoping Pu* and Xiaoming Feng*



Visible-light-induced dehydrogenative β-trifluoromethylthiolation of tertiary amines and direct β-trifluoromethylthiolation of enamides

Yaqi Song, Zhongling Jiang, Yi Zhu, Tian-Yu Sun, Xiao-Feng Xia* and Dawei Wang*

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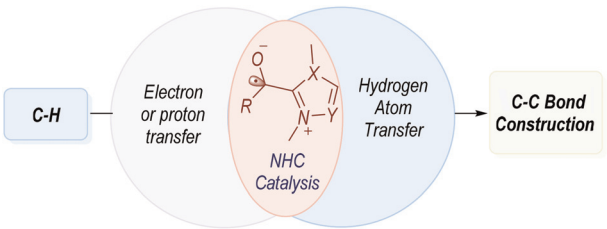
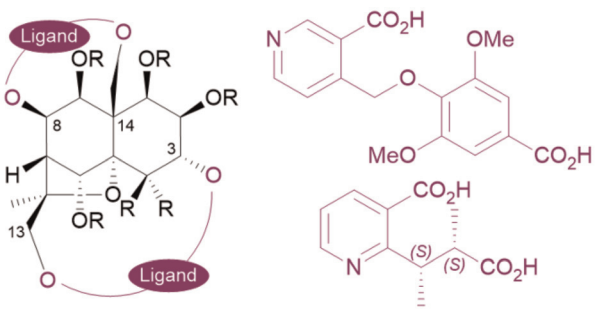


Direct coupling of inert C–H bonds in NHC organocatalysis

Hongling Wang, Fen Su, Yanyan Wang, Xingxing Wu* and Yonggui Robin Chi*

REVIEWS



Celastraceae sesquiterpene pyridyl ligands

Chen Dai and Alan C. Spivey*