

# Organic & Biomolecular Chemistry

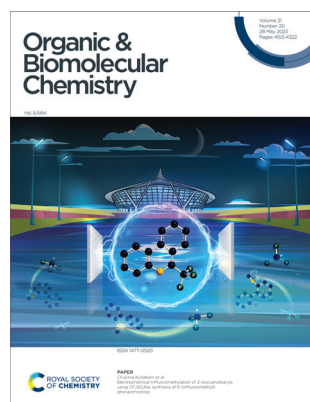
An international journal of synthetic, physical and biomolecular organic chemistry

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### Cover

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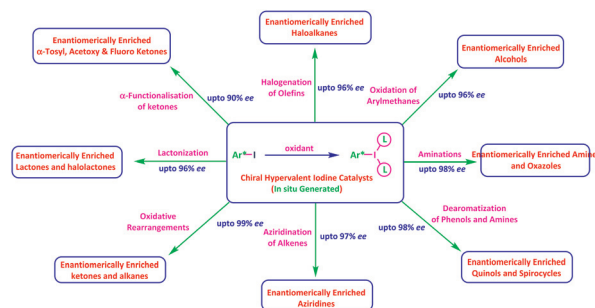
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## REVIEW

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### Catalytic stereoselective synthesis involving hypervalent iodine-based chiral auxiliaries

Samata E. Shetgaonkar\* and Fateh V. Singh\*

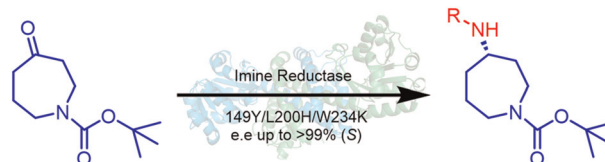


## COMMUNICATIONS

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### Semi-rational design of an imine reductase for asymmetric synthesis of alkylated S-4-azepanamines

Fangfang Zhu, Jun Zhang,\* Yaqing Ma, Lujia Yang, Qiang Gao,\* Shushan Gao\* and Chengsen Cui\*



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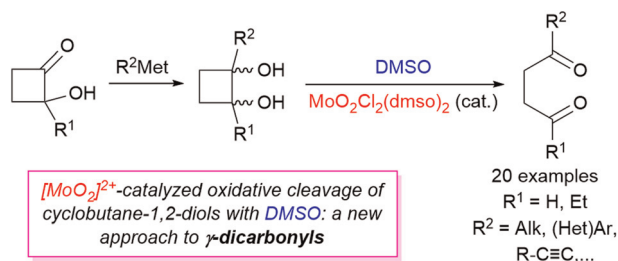


## COMMUNICATIONS

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### Synthesis of 1,4-ketoaldehydes and 1,4-diketones by Mo-catalyzed oxidative cleavage of cyclobutane-1,2-diols

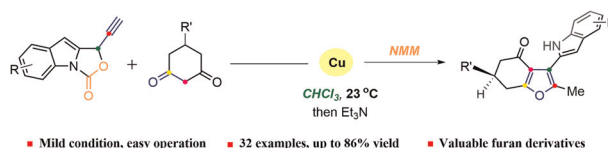
Sara Gómez-Gil, Rubén Rubio-Presa, Raquel Hernández-Ruiz, Samuel Suárez-Pantiga, María R. Pedrosa and Roberto Sanz\*



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### Copper-catalyzed one-pot [3 + 2] cycloadditions of ethynyl indoloxazolidones with 1,3-cyclohexanediones

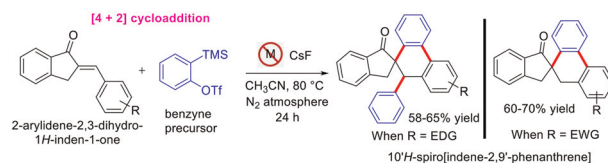
Qing-Qiang Su, Ruo-Nan Wang, Yong-Zheng Lv, Ya-Xin Fan, Shan Li, Hong-Li Huang\* and Ji-Yuan Du\*



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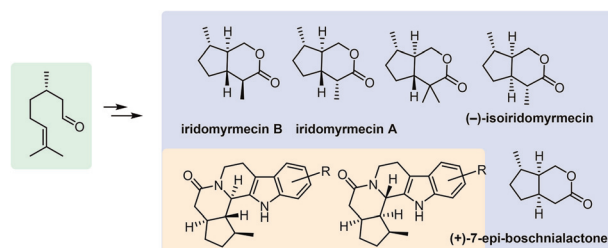
Subhasish Ray, Anup Kumar Yadav, Saurabh Singh, Monish Arbaz Ansari and Maya Shankar Singh\*



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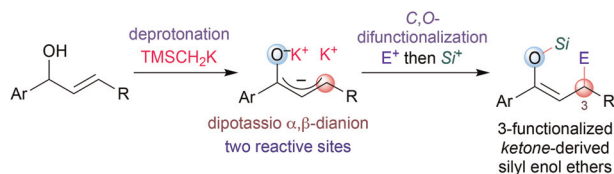
### From citronellal to iridoids: asymmetric synthesis of iridoids and their analogues via organocatalytic intramolecular Michael reactions

Raviramanujayya Tammiseti, Prakash D. Chaudhari, Bor-Cherng Hong\* and Su-Ying Chien



## COMMUNICATIONS

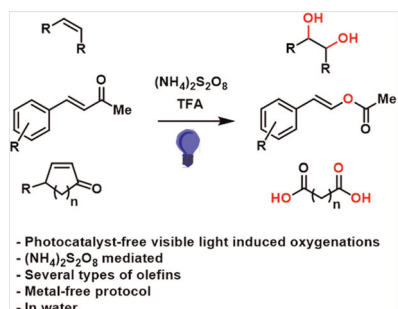
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### One-pot synthesis of 3-functionalized (Z)-silyl enol ethers from 1-aryllallylic alcohols by C,O-difunctionalization of dipotassio $\alpha,\beta$ -dianion intermediates

Rikuo Hayashi, Yutaka Narita and Masahiro Sai\*

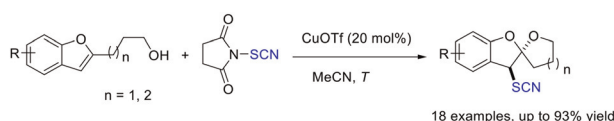
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### Oxidative transformations of olefins employing persulfate/visible light irradiation in water

Gabriel S. G. Peagno and Airtton G. Salles, Jr.\*

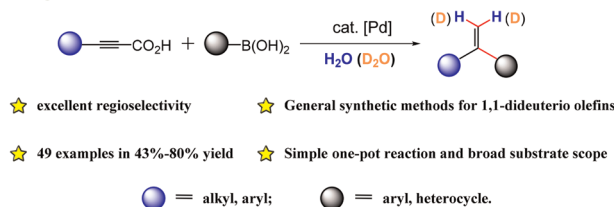
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### Copper(I)-catalyzed electrophilic thiocyanation/dearomatization/spirocyclization of benzofurans to synthesize benzannulated spiroketals

Ying He, Qing Wang, Hongquan Yin and Fu-Xue Chen\*

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### Palladium-catalyzed regioselective decarboxylative hydroarylation of alkynyl carboxylic acids with arylboronic acids

Zheng Dong, Ren-Jie Tong, Lei Xu, Hua-Jian Xu\* and Jun Xu\*

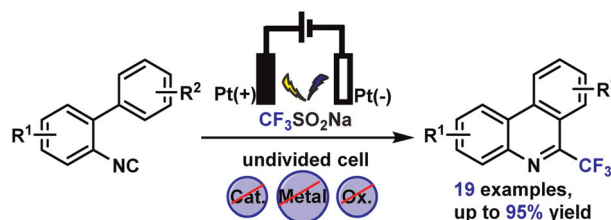


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### Electrochemical trifluoromethylation of 2-isocyanobiaryls using $\text{CF}_3\text{SO}_2\text{Na}$ : synthesis of 6-(trifluoromethyl)phenanthridines

Kannika La-ongthong, Teera Chantarojsiri, Darunee Soorukram, Pawaret Leowanawat, Vichai Reutrakul and Chutima Kuhakarn\*

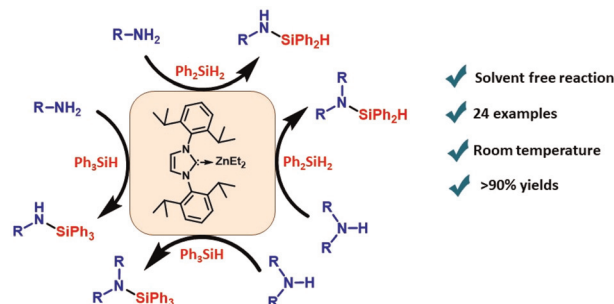


- simple
- functional group tolerance
- scalable

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### NHC–Zn alkyl catalyzed cross-dehydrocoupling of amines and silanes

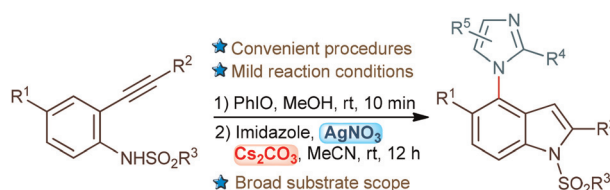
Adimulam Harinath, Himadri Karmakar, Devadkar Ajitaro Kisan, Hari Pada Nayek and Tarun K. Panda\*



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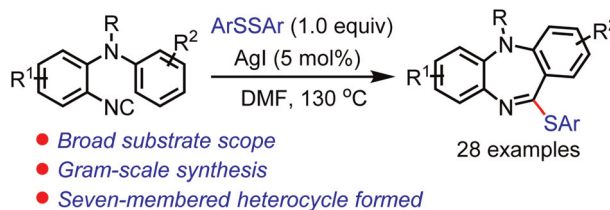
Chaoman Huang, Zefeng Jin, Bei Zhang, Yuanyuan Zhou, Huiting Lin, Honglan Kang, Guodong Shen and Xin Lv\*



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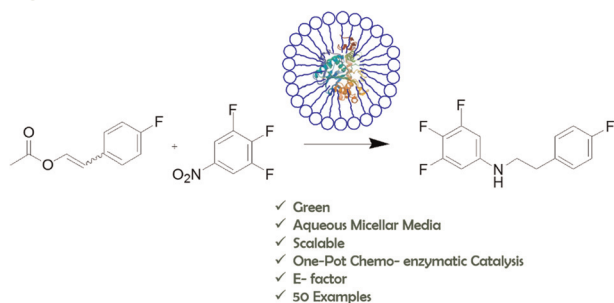
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Yi Liu, Wei Gao,\* Sitian Yuan, Mengjia Ni, Tianxin Hao, Cuiying Zeng, Xinyi Xu, Yang Fu,\* Yiyuan Peng and Qiuping Ding\*



## PAPERS

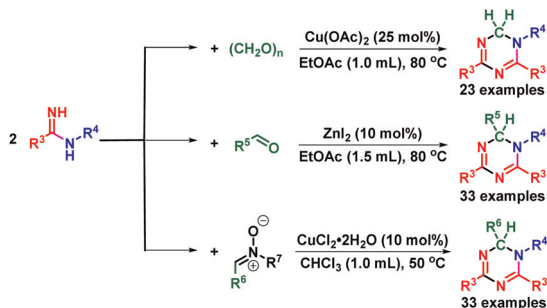
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### A facile, one-pot reductive alkylation of aromatic and heteroaromatic amines in aqueous micellar media: a chemoenzymatic approach

Krithika Ganesh, Ganesh Sambasivam\* and Karthikeyan S\*

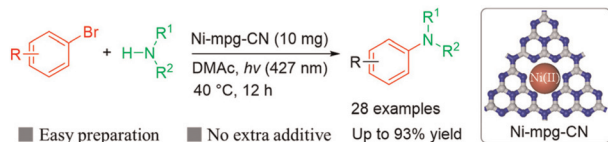
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### Construction of 1,2-dihydro-1,3,5-triazines via reactions involving amidines

Honghong Guo, Jianying Lin, Qiang Liu and Xing Li\*

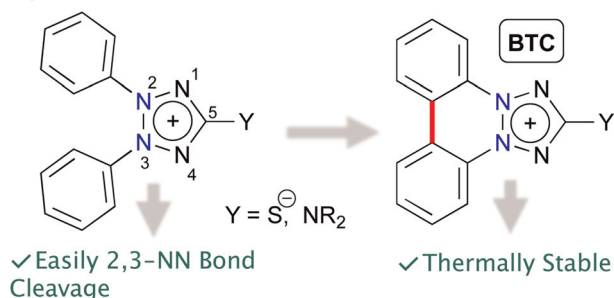
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### Photocatalytic C–N cross-coupling mediated by heterogeneous nickel-coordinated carbon nitride

Qi Zhu, En Zhao, Yajing Shen, Zupeng Chen\* and Weiwei Fang\*

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### Synthesis of stable class 5 mesoionic benzo[c]tetrazolo[2,3-a]cinnolinium thiolate, dicyanomethylide, and amides

Mirai Nakata, Tsunehisa Hirashita,\* Yoshikazu Konishi and Shuki Araki



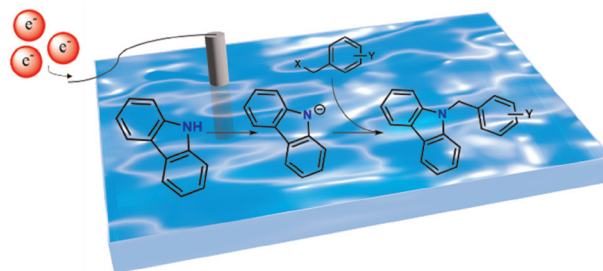


## PAPERS

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## Insights into reactivity trends for electrochemical C–N bond formations

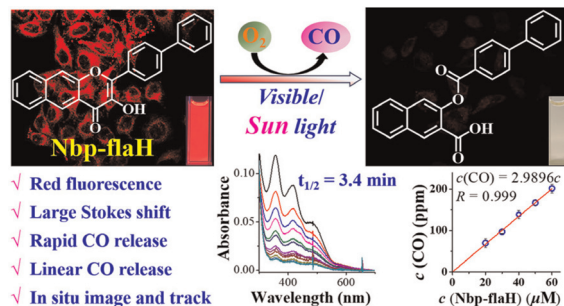
James D. Sitter, Edgar E. Lemus-Rivera and Aaron K. Vannucci\*



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## Exactly controlled linear CO liberation: an A- and B-ring simultaneously extended flavonol-based red fluorescent photoCORM

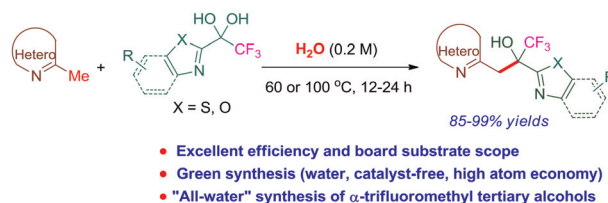
Yi Zhang, Ying-Ji Sun,\* Chao Yu and Yan-Qin Li



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Catalyst-free C(sp<sup>3</sup>)–H functionalization of methyl azaarenes with heteroaromatic trifluoromethyl ketone hydrates: “all-water” synthesis of α-trifluoromethyl tertiary alcohols

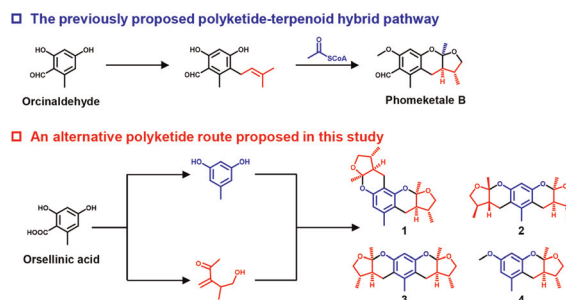
Wei Wang, Zhaoliang Qin, Xinhui Zhang, Wanxiang Zhao\* and Wen Yang\*



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## Isolation of new compounds related to xyloketal biosynthesis implies an alternative pathway for furan-fused-chromene formation

Jia-Hua Huang, Jian-Ming Lv, Yan-Feng Xie, Huan Zhao, Liang-Yan Xiao, Ping Dai, Sheng-Ying Qin, Dan Hu,\* Hao Gao\* and Xin-Sheng Yao\*



## CORRECTION

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**Correction: NHC–Zn alkyl catalyzed cross-dehydrocoupling of amines and silanes**

Adimulam Harinath, Himadri Karmakar, Devadkar Ajitaro Kisan, Hari Pada Nayek and Tarun K. Panda\*

