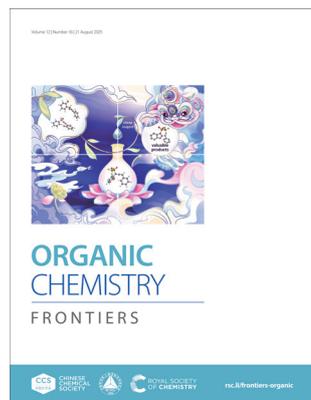


### IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 12(16) 4401-4688 (2025)



#### Cover

See Zhen-Jiang Liu,  
Hui-Yu Chen *et al.*,  
pp. 2920–2925.

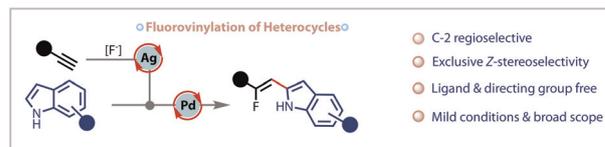
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Hui-Yu Chen and  
Zhen-Jiang Liu  
from *Org. Chem. Front.*,  
2025, **12**, 2920.

### RESEARCH ARTICLES

4410

#### Palladium-catalysed regio- and stereo-controlled C-2 $\beta$ -fluorovinylation of indoles

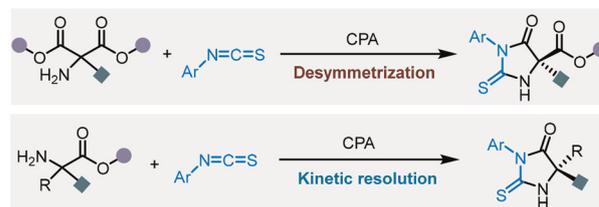
Atul K. Chaturvedi and Alastair J. J. Lennox\*



4417

#### Enantioselective catalytic Urech hydantoin synthesis

Wen-Ya Zheng, Zi-Qi Wang, Xing-Zi Li, Zhuo-Chen Li,  
Hua Wu,\* Abulikemu Abudu Rexit\* and Yu-Ping He\*



- ✓ 1st Enantioselective Urech synthesis
- ✓ Desymmetrization and kinetic resolution
- ✓ Alkyl group tolerated
- ✓ DKR process involved
- ✓ Aza-quaternary stereocenters



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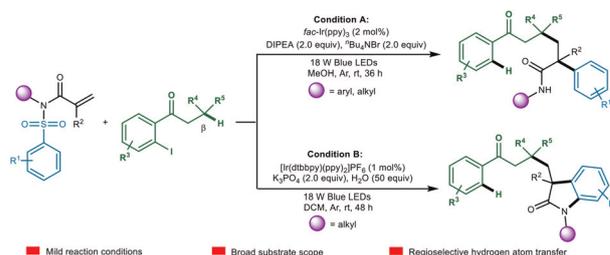
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## RESEARCH ARTICLES

4424

A photocatalytic hydrogen atom transfer and aryl migration strategy for the arylalkylation of activated alkenes with 1-(*o*-iodoaryl)-alkan-1-ones

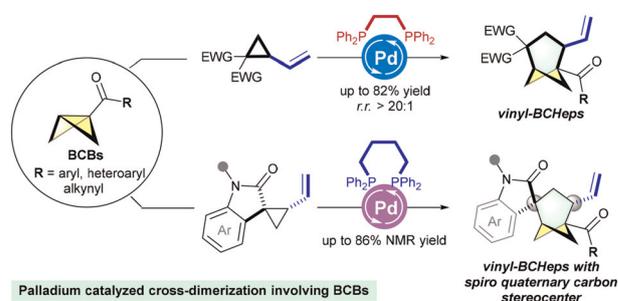
Yan-Lin Chu, Liang Zeng, Shuang Wu,\* Jie Yang, Ming Hu\* and Jin-Heng Li\*



4430

Palladium-catalyzed double strain-release ( $3 + 3$ ) cycloaddition for the synthesis of vinylbicyclo[3.1.1]heptanes

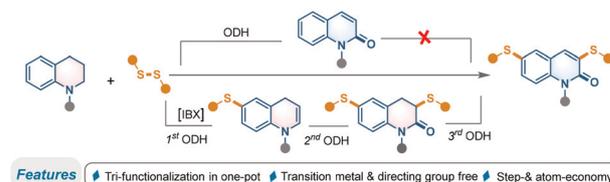
Xin-Yu Gao, Yuanjiu Xiao, Xuan Zhan, Yu-Jie Li, Kun-Ju Wang and Jian-Jun Feng\*



4439

## Hypervalent iodine-mediated one-pot synthesis of C3,6-dithioquinolin-2-ones

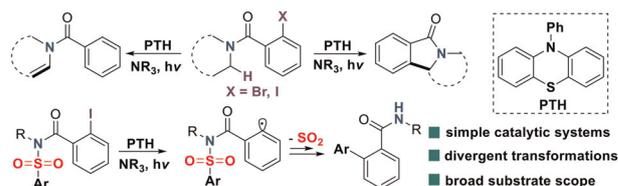
Yukun Xie, Xiaodan Meng, Chenrui Liu, Xiaoxiang Zhang, Zhuan Zhang and Taoyuan Liang\*



4445

Organic photoredox catalyst induced divergent transformations of *o*-halogenated benzamides

Sa Li, Xuning Li, Ji-Pan Yu\* and Xiao-Feng Xia\*



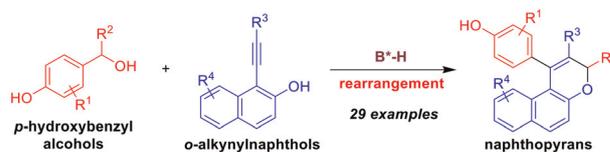


## RESEARCH ARTICLES

4485

Catalytic rearrangement reaction of *p*-hydroxybenzyl alcohols with *o*-alkynynaphthols for synthesis of naphthopyrans

Ping Wu, Chun-Dong Huang, Ye-Hui Ding, Yun-Xuan Chen, Jia-Hao Ji, Shao-Fei Ni,\* Yu Peng\* and Wei Tan\*

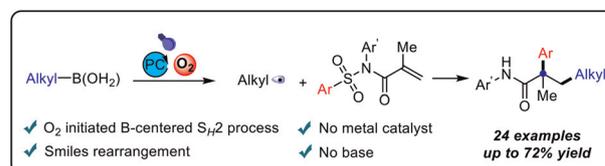
**Significance:**

- The first catalytic rearrangement reaction of *p*-hydroxybenzyl alcohols
- A novel strategy for the synthesis of naphthopyrans under mild conditions

4493

Photo-induced energy transfer mediated O<sub>2</sub>-initiated deboronative generation of alkyl radicals from alkyl boronic acids and its application in radical Smiles rearrangement

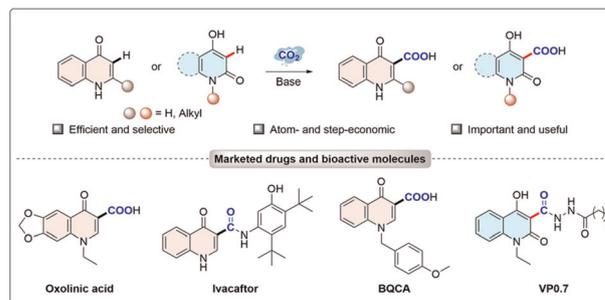
Jinpeng Wu, Yongsheng Tian, Xue Zhao, Shuai Liu,\* Liang Xu\* and Huanhuan Song\*



4499

Carboxylation of C(sp<sup>2</sup>)-H bonds in quinolone derivatives with CO<sub>2</sub>: facile synthesis of quinolone carboxylic acids

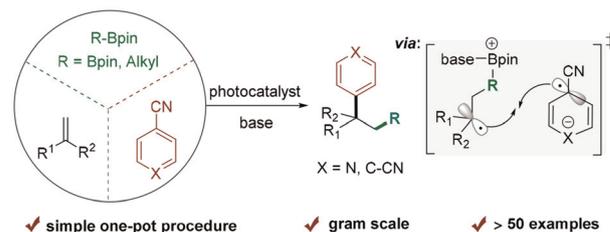
Changfu Li, Wei Zhang, Yunyi Xu, Yang Su, Tian-Yu Gao, Jian-Heng Ye, Lei Song\* and Da-Gang Yu\*



4506

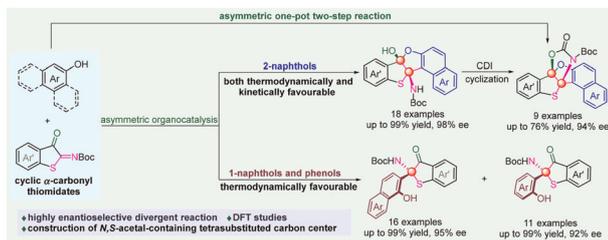
## Photocatalytic three-component 1,2-boroarylation and carbopyridylation of alkene

Jia Cao,\* Baobao Ji, Zhixiang Wang, Ruijuan Wang and Liuzhou Gao\*



## RESEARCH ARTICLES

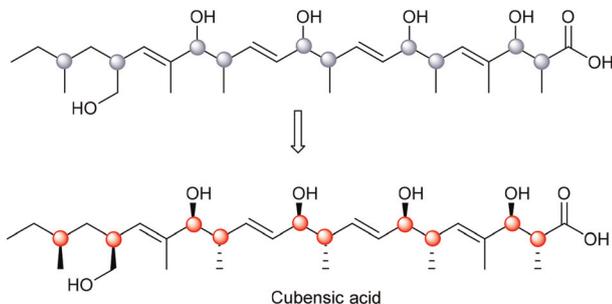
4514



### Catalytic enantioselective divergent reaction of thioimidates with naphthols: construction of *N,S*-acetal-containing tetrasubstituted carbon centers

Qiao-Qiao Peng, Xing Yang, Xi-Sha Xue, Juan Liao, Lei Yang, Yong You, Zhen-Hua Wang, Lili Zhao,\* Wei-Cheng Yuan\* and Jian-Qiang Zhao\*

4525

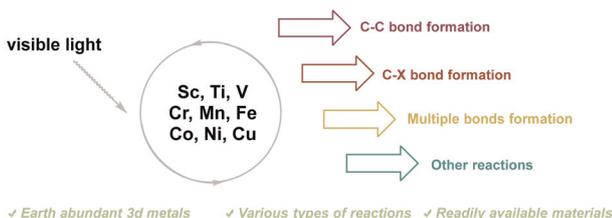


### Total synthesis and stereochemical assignment of cubensic acid

Yangyang Jiang, Junyang Liu\* and Tao Ye\*

## REVIEWS

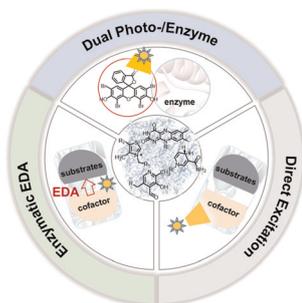
4530



### Photo and earth-abundant metal dual catalysis in organic synthesis

Guannan Li, Tongtong Li, Lifeng Luo, Yan Tan and Zhan Lu\*

4608



### Recent advances in repurposing natural enzymes for new-to-nature asymmetric photobiotransformations

Fulu Liu, Xichao Peng, Jinhai Yu and Xiaoqiang Huang\*

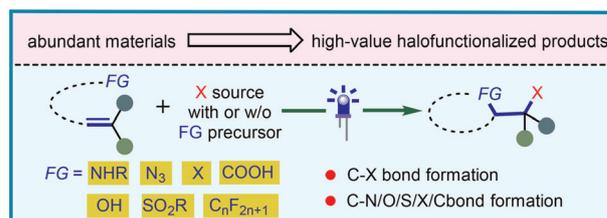


## REVIEWS

4635

**Visible light-mediated halofunctionalization of alkenes for the synthesis of vicinally functionalized organohalides**

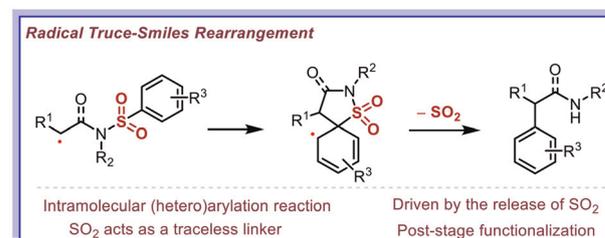
Kanta Pajujantaro, Ying Chen and Gong-Qing Liu\*



4666

**Advancements and perspectives toward radical Truce–Smiles-type rearrangement**

Yuxi Wang, Xinyao Zhang, Kexin Kong and Chao Shu\*



## CORRECTION

4685

**Correction: HBF<sub>4</sub>-mediated direct alcoholysis of amides under mild conditions**

Shi-Zheng Liu, Wen-Heng Liu, Yaotai Deng, Qiang Li,\* Ming-Yu Dou, Yu Cui\* and Jian-Min Dou\*

