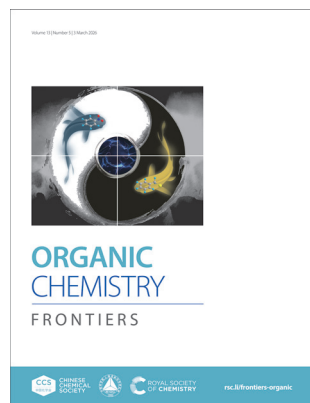


### IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 13(5) 1507-1726 (2026)



#### Cover

See Jiayu Mo *et al.*,  
pp. 1517–1522.

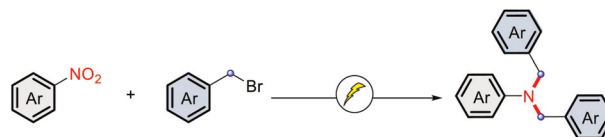
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Jiayu Mo from  
*Org. Chem. Front.*,  
2026, **13**, 1517.

### RESEARCH ARTICLES

1517

#### Electrochemically driven reductive coupling of nitroarenes with alkyl bromides

Xiaoli Su, Wei Wei, Zhaojun Ding, Jiazan Li, Jinlian Li and Jiayu Mo\*



✓ metal-catalyst-free

✓ tolerance of EWG

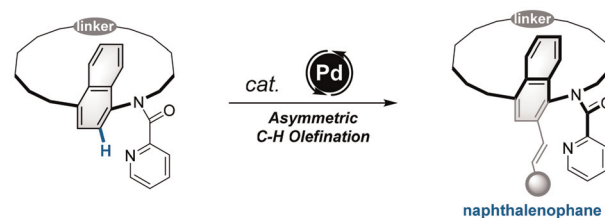
✓ mild reaction conditions

✓ late-stage functionalizations

1523

#### Pd(II)-catalyzed atroposelective C–H olefination to access [n]naphthalenophanes

Xiaoyu Wang, Jia Li, Quan Tang\* and Changgui Zhao\*



✓ High chemoselectivity

✓ up to 99% yield, >99% ee

✓ 31 examples



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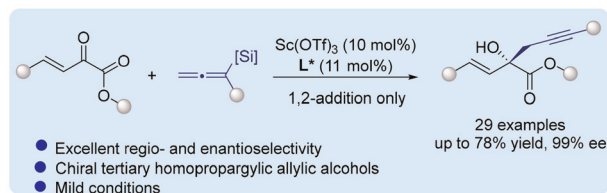
[rsc.li/EESBatteries](https://rsc.li/EESBatteries)

## RESEARCH ARTICLES

1531

### Scandium-catalyzed asymmetric addition of allenylsilanes to $\beta,\gamma$ -unsaturated $\alpha$ -ketoesters: enantioselective synthesis of tertiary homopropargylic allylic alcohols

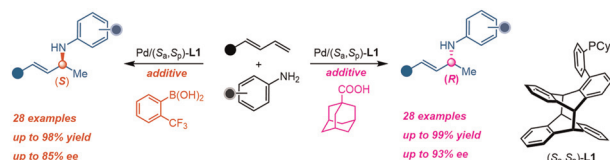
Linxuan Wang, Xiangqing Jia,\* Chen-Ho Tung and Zhenghu Xu\*



1536

### Enantiodivergent intermolecular hydroamination of acyclic 1,3-dienes using aniline nucleophiles

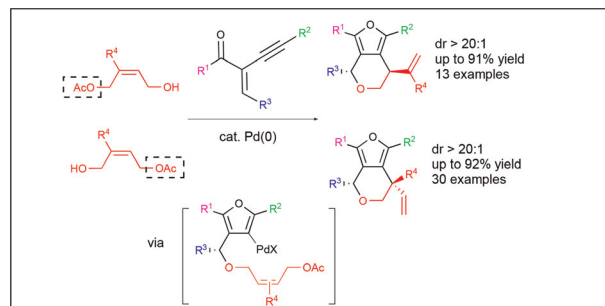
Tianlei Ren and Huan Cong\*



1545

### Palladium(II)-catalyzed substrate-controlled diastereoselective formal (3 + 3) allylic annulation of 2- or 3-substituted 4-hydroxy-but-2-en-1-yl acetates

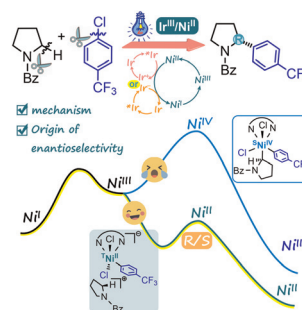
Tuanli Yao,\* Nan Yang, Jun-E. She and Xiangyang Qin\*



1551

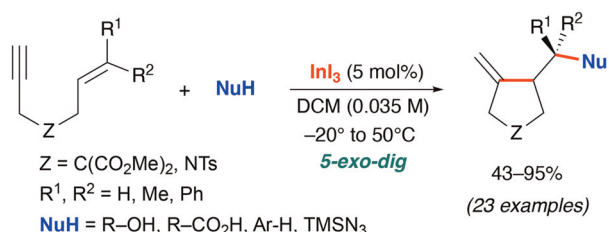
### Outer-sphere reductive elimination as the enantio-determining step in Ir<sup>III</sup>/Ni<sup>II</sup> metallaphotoredox-catalyzed $\alpha$ -(hetero)aryl amination: a DFT study

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



## RESEARCH ARTICLES

1560

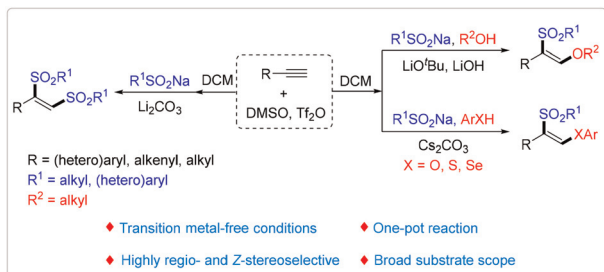


- Efficient and versatile
- Chemo- and regioselective
- Practical and economical
- Stereoselective

### Tandem indium(III)-catalyzed cyclization and intermolecular hydrofunctionalization of 1,6-enynes

Raquel Pérez-Guevara, Diego Folgueira-Iravedra, Lorena Alonso-Marañón, M. Montserrat Martínez and José Pérez Sestelo\*

1566

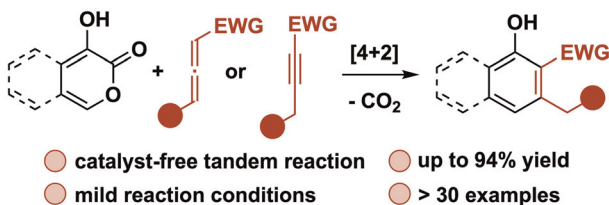


- ◆ Transition metal-free conditions
- ◆ One-pot reaction
- ◆ Highly regio- and Z-stereoselective
- ◆ Broad substrate scope

### DMSO/Tf<sub>2</sub>O-promoted regio- and Z-stereoselective sulfonyl functionalization of terminal alkynes

Yuxin Guo, Hanru Tang, Zhiyan Liu, Zhiping Wang, Long-Yong Xie\* and Jian Wen\*

1573

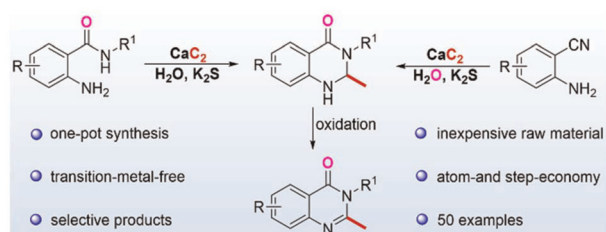


- catalyst-free tandem reaction
- up to 94% yield
- mild reaction conditions
- > 30 examples

### Syntheses of 1,2,3-functionalized naphthols and phenols by decarboxylative cycloaddition/aromatization reactions of $\alpha$ -oxygenated lactones with allenates or electron-deficient alkynes

Mohammad Sadeq Mousavi, Antonio Massa\* and Mario Waser\*

1578



- one-pot synthesis
- transition-metal-free
- selective products
- inexpensive raw material
- atom- and step-economy
- 50 examples

### Synthesis of quinazolinone scaffolds from the cascade reaction of *o*-aminobenzamides/*o*-aminobenzonitriles and calcium carbide mediated by K<sub>2</sub>S

Shuyi Li, Yunzhe Du, Ligang Yan, Siliu Cheng, Shuang Cao, Ruijun Xie, Limin Han\* and Ning Zhu\*

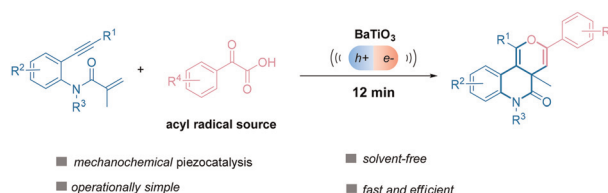


## RESEARCH ARTICLES

1586

Piezocatalyzed cascade cyclization of 1,7-enynes with  $\alpha$ -keto acids under ball milling

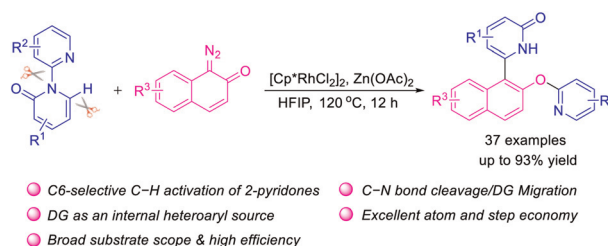
Yashuang Liu, Heng Li, Yan Liu\* and Bingxin Yuan\*



1595

## Rh(III)-catalyzed regioselective C6-arylation of 2-pyridones with diazonaphthalen-2(1H)-ones along with directing group migration

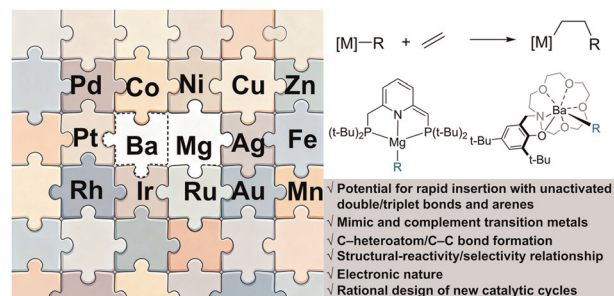
Yuanshuang Xu,\* Shuya Zhang, Yujing Xiao, Xinying Zhang\* and Xuesen Fan\*



1602

## Harnessing alkaline-earth metal reactivity: mechanistic insights into alkene and alkyne functionalization via organomagnesium(II) and organobarium(II) catalysis

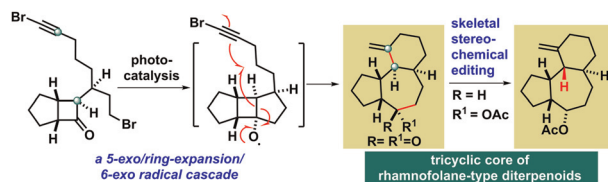
Yumiao Ma



1617

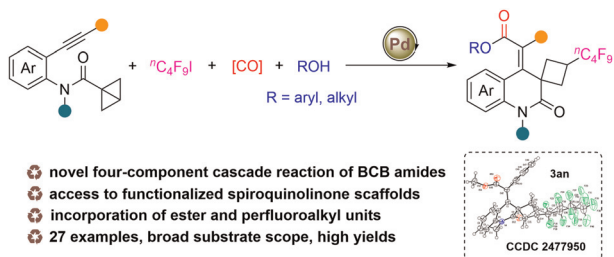
## Construction of the tricyclic core of rhamnofolane-type diterpenoids

Zhuang Wang, Zhaoyu Zhang, Xinyu Xie, Song Qin, Shaomin Fu\* and Bo Liu\*



## RESEARCH ARTICLES

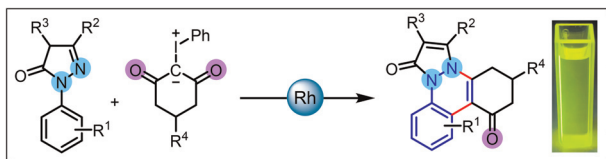
1625



### Palladium-catalyzed four-component cascade cyclization and carbonylation of bicyclobutyl (BCB) amides

Jianwei Wang, Chunxue Pu, Jianfeng Xu, Yan Cao, Wei Chen and Jun Ying\*

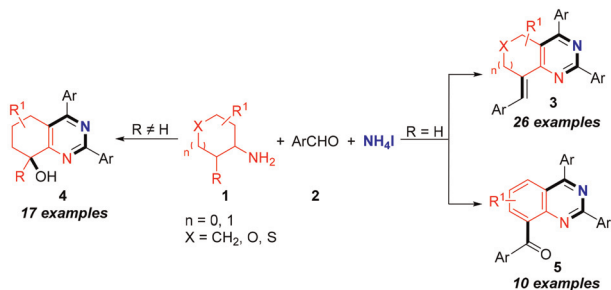
1630



### Rh(III)-catalysed [4 + 2] annulation of *N*-arylpyrazolones with iodonium ylides: access to fused cinnolines

Xiaoting Chen, Chaoyu Wang, Xiujuan Zheng, Yadong Feng, Junjie Ma\* and Xiuling Cui\*

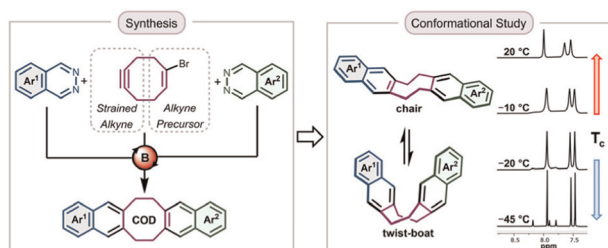
1636



### Divergent oxidative annulation of primary aliphatic amines to access semi-saturated fused pyrimidines or quinazolines

Kang Liu, Jiaoling Li, Fanqian Li, Xinyi Tang, Xue Peng, Yao-Fu Zeng, Xinping Liu, Guo-Jun Deng,\* Zhen Wang\* and Jinjin Chen\*

1643



### Modular assembly of conformationally dynamic dinaphthocycloocta-1,5-dienes

Michel Große, Christopher M. Leonhardt and Hermann A. Wegner\*

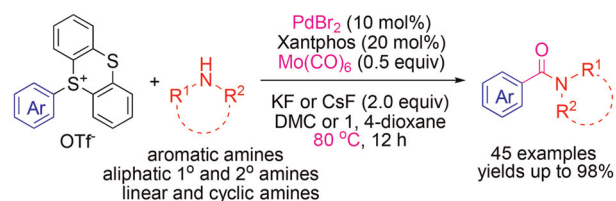


## RESEARCH ARTICLES

1650

### Palladium-catalysed aminocarbonylation of aryl thianthrenium salts to aryl carboxamides using $\text{Mo}(\text{CO})_6$ as a CO source

Zhuo Chen, Hui-Qiang Li, Shun-Bin Xu, Ling-Rui Zhou, Tong-Ling Qin, Wen-Xia Hu, Tao Li, Ruo-Yi Hou, Zi-Yu Lin and E Tang\*

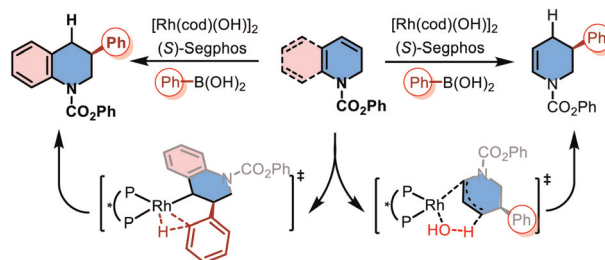


- ▼ mild reaction conditions
- ▼ good to high yields
- ▼  $\text{Mo}(\text{CO})_6$  as the CO surrogate
- ▼ suitable for drug derivatives
- ▼ readily available and steady catalyst and aryl source
- ▼ good generalization of the substrates

1657

### Substrate-controlled mechanistic switch between protodemetalation and oxidative addition in Rh-catalyzed carbometalation: a DFT study

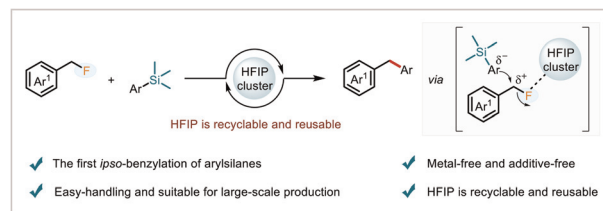
Chunhui Shan,\* Hong Chen, Xiang Zhang and Xiaoling Luo



1667

### Metal- and additive-free *ipso*-benzylation of arylsilanes to access diarylmethanes

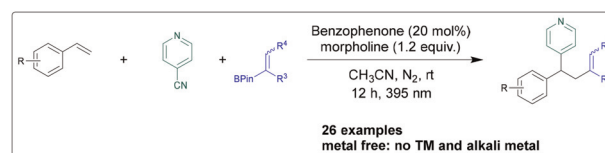
Wanting Fu, Jialong Zhong, Shuang Lv, Xinyu Song, Yilin Xing and Zikun Wang\*



1675

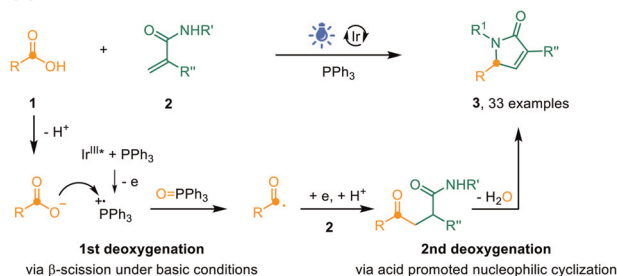
### Benzophenone-catalyzed alkenylative pyridylation of vinylarenes with alkenylboronic esters

Yuhui Ying, Zixiang Li and Bin Liu\*



## RESEARCH ARTICLES

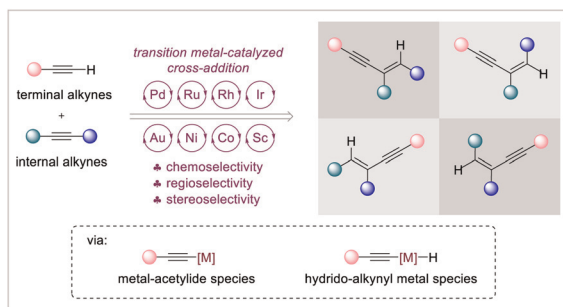
1681

Photocatalytic 3D skeletal editing of carboxylic acids via [4 + 1] cyclization for streamlined synthesis of unsaturated  $\gamma$ -lactams

Jiahui Yu, Xiaohong Li\* and Liangbin Huang\*

## REVIEWS

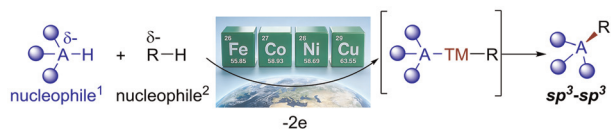
1688



## Transition metal-catalyzed selective hydroalkynylation of internal alkynes with terminal alkynes

Jun-Fei Wang, Ping Tian\* and Yun-Xuan Tan\*

1703



- No stoichiometric  $\text{sp}^3$ -electrophiles required
- High step-economy
- No pre-functionalization required
- High atom-economy

Recent advances in earth-abundant transition-metal-catalysed asymmetric oxidative  $\text{sp}^3\text{-sp}^3$  cross-couplings

Jiao He, Perla Bharath Kumar, Yu-Long Li,\* Qiong Yu\* and Wei Shu\*

