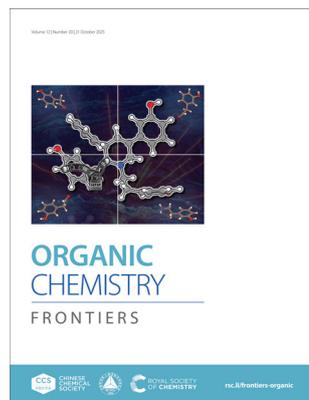


### IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 12(20) 5359-5718 (2025)



#### Cover

See Mehdi A. Beniddir,  
Erwan Poupon *et al.*,  
pp. 5372–5378.

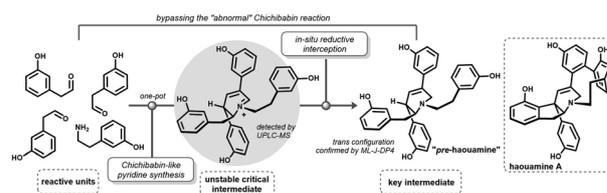
Image reproduced by  
permission of Axel Leblond,  
Mehdi A. Beniddir,  
Erwan Poupon *et al.* from  
*Org. Chem. Front.*, 2025, **12**,  
5372.

### RESEARCH ARTICLES

5372

#### Bypassing the abnormal Chichibabin reaction dead-end provides a biomimetic access to pre-haouamine

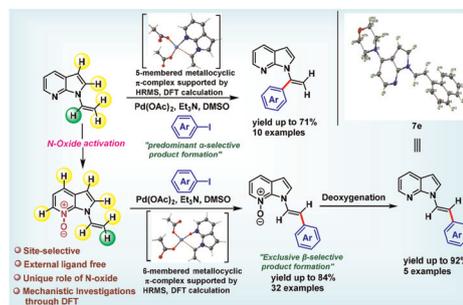
Axel Leblond, Érick Caique Santos Costa,  
Karine Leblanc, Edmond Gravel, Jean-François Gallard,  
Mehdi A. Beniddir\* and Erwan Poupon\*



5379

#### Site selective Heck arylation of N-vinyl-7-azaindole engineered by N-oxide activation: scope and mechanistic studies

Susanta Patra, Arunava Sengupta and Parthasarathi Das\*



# Royal Society of Chemistry approved training courses

Explore your options.  
Develop your skills.  
Discover learning  
that suits you.

**Courses in the classroom,  
the lab, or online**

Find something for every  
stage of your professional  
development. Search our  
database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit [rsc.li/cpd-training](https://rsc.li/cpd-training)



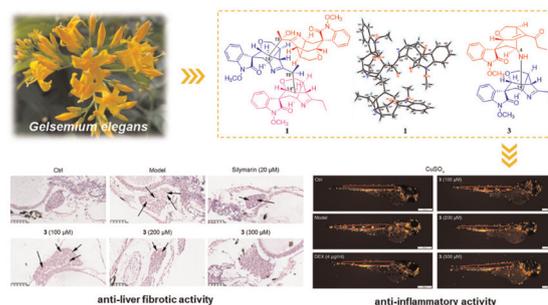
**SAVE  
10%**

## RESEARCH ARTICLES

5387

### Oligomeric monoterpenoid indole alkaloids from the flowers of *Gelsemium elegans* with anti-inflammatory and anti-fibrotic activities

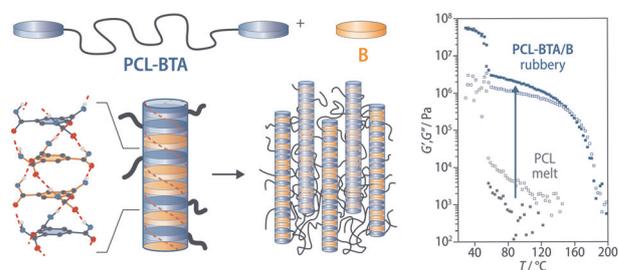
Ji-Hong Gu, Ni-Ping Li, Hao-Ting Lin, Ling-Na Dai, Min-Jing Cheng, Jian Hong, Yi-Yi Li, Jun-Shan Liu,\* Wen-Cai Ye\* and Lei Wang\*



5395

### Polymer-bridged nanofibrils in a high-molar-mass polyester via co-assembly of benzenetricarboxamide end groups and an additive

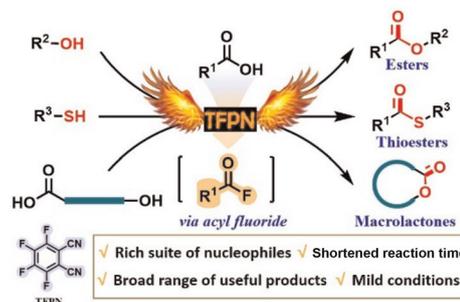
Sophia Thiele, Michael Giffin, Matthieu Wendling, Daniel Görl, Christopher J. G. Plummer and Holger Frauenrath\*



5414

### A TFPN-mediated acyl fluoride platform: efficient synthesis of esters, thioesters, and macrolactones from carboxylic acids with diverse nucleophiles

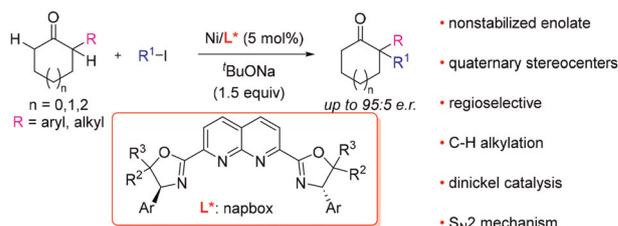
Dou Zhang, Peng Shen, Yao Zhang, Qiuyi Zheng, Jiahui Zhang, Chunyu Han,\* Silin Xu\* and Jinhua Yang\*



5421

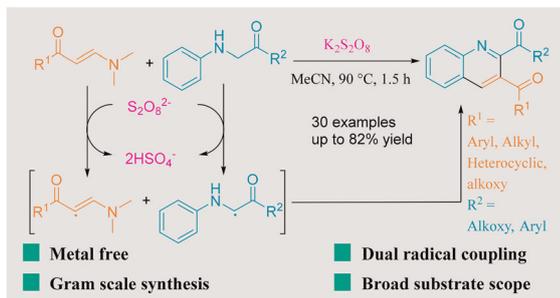
### Dinickel-catalyzed regio- and enantioselective $\alpha$ -alkylation of cyclic ketones with unactivated alkyl halides

Liangwei Zhu, Lin Zhang, Jian Zhang, Peigen Wang, Ruopeng Bai\* and Zhonglin Tao\*



## RESEARCH ARTICLES

5430

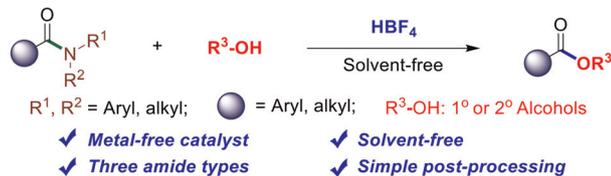


### Cross-dehydrogenative radical coupling enabled by $K_2S_2O_8$ : efficient synthesis of 2,3-dicarbonyl quinolines from enaminones and glycine derivatives

Chunxiao Nong, Kun He, Yingguo Jiang, Fan Zhu, Mingquan Yuan,\* Jingbo Chen\* and Yi Jin\*

5438

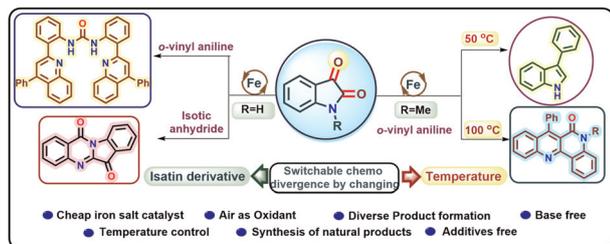
### $HBF_4$ -Mediated Alcoholysis of Amides



### $HBF_4$ -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\*

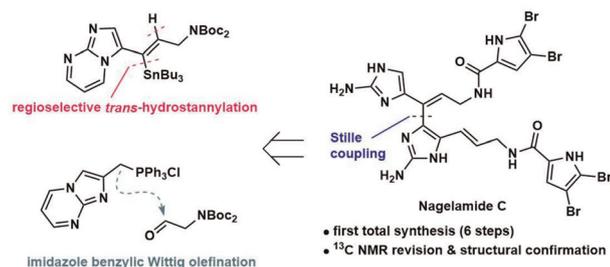
5445



### Chemodivergent temperature-controlled switchable iron-catalysed annulation of o-vinylaniline with isatin derivatives

Sakshi Singh, Samir Kumar Mondal and Shantanu Pat\*

5453



### Total synthesis and $^{13}C$ NMR revision of nagelamide C

Guanghu Tong,\* Long V. Nguyen and Timothy F. Jamison

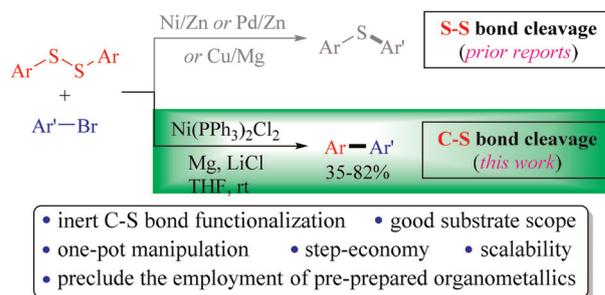


## RESEARCH ARTICLES

5459

## Ni-catalyzed reductive cross-couplings of diaryl disulfides with aryl bromides for biaryl synthesis through C–S bond cleavage

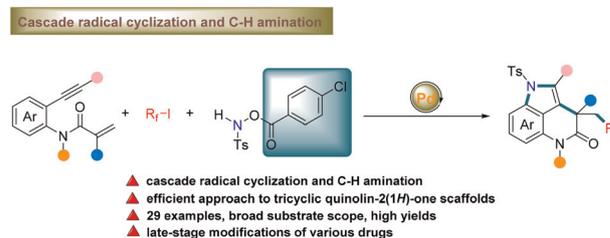
Xuan-Qi Zhang, Cai-Yu He, Shuang-Feng Song, Xue-Qiang Chu, Hao Xu,\* Xiaocong Zhou,\* Weidong Rao and Zhi-Liang Shen\*



5467

## Palladium-catalyzed cascade synthesis of tricyclic quinolin-2(1H)-ones from 1,7-enynes and hydroxylamines

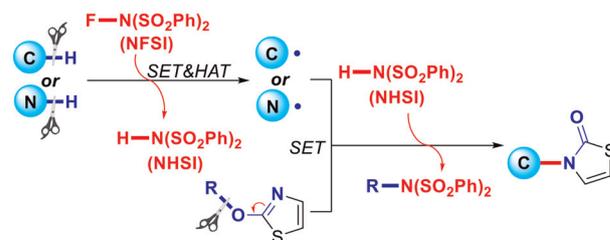
Jiajun Zhao, Xiaolong Wang, Yan Cao and Jun Ying\*



5472

Remote activating strategy enabled (RASE)  $\pi$ -bond migratory dealkylative C–N coupling utilising N-fluorobenzenesulfonimide (NFSI) as a bifunctional domino reagent

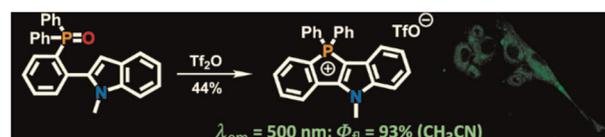
Jiahao Gu, Zhenyang Wan, Yuhong Lu, Xiangmin Tian, Ziyue Zeng, Dailin Zhuang\* and Ziyuan Li\*



5484

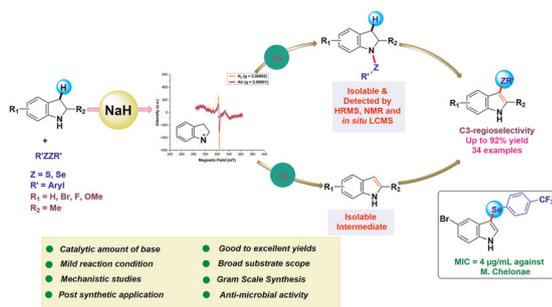
An efficient method for the synthesis of  $\pi$ -expanded phosphonium salts

Krzysztof Górski, Łukasz W. Ciszewski, Antoni Wrzosek, Adam Szweczyk,\* Andrzej L. Sobolewski\* and Daniel T. Gryko\*



## RESEARCH ARTICLES

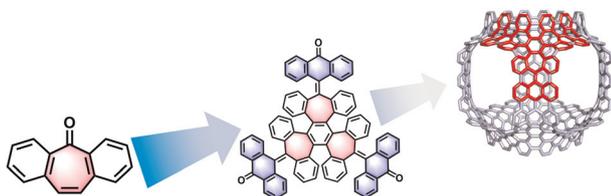
5496



### NaH-promoted one-pot oxidation/aromatization and C-3H chalcogenation of indoline: atmospheric control-based selective intermediates

Suman Majee, Km. Anjali, Shaily Agarwal, Vishnu Poonia, Alok Kumar Singh, Biswajit Guchhait and Devalina Ray\*

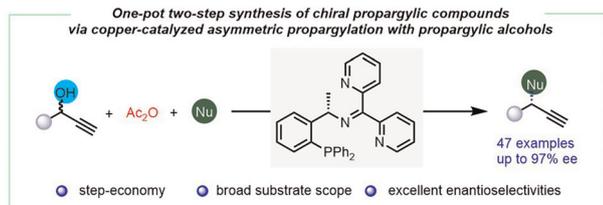
5504



### Facile synthesis of a contorted polycyclic aromatic hydrocarbon derivative

Xiaoxia Duan, Kai Lan, Yue Su and Chuyang Cheng\*

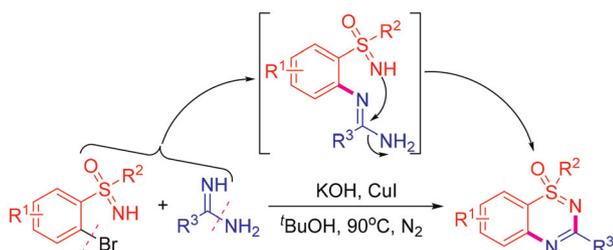
5511



### Chiral bifunctional *N,N,P*-ligand-enabled cooperative Cu catalysis: one-pot two-step propargylic substitution of propargylic alcohols

Ruinan Zhao, Zihao Wang, Ting Fang, Chibin Zhang, Lijun Tang, Cuiju Zhu and Hao Xu\*

5519



### Copper(I)-catalyzed tandem C-N coupling/condensation cyclization for the synthesis of benzothiadiazine 1-oxides

Sihan Zhou and Qingle Zeng\*

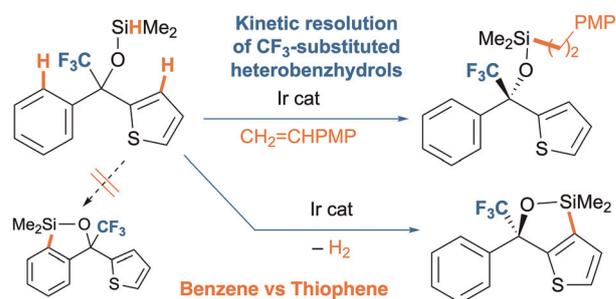


## RESEARCH ARTICLES

5525

Kinetic resolution of trifluoromethylated heterobenzhydrols *via* hydrogen-acceptor-free Ir-catalyzed heteroaryl-selective C–H silylation

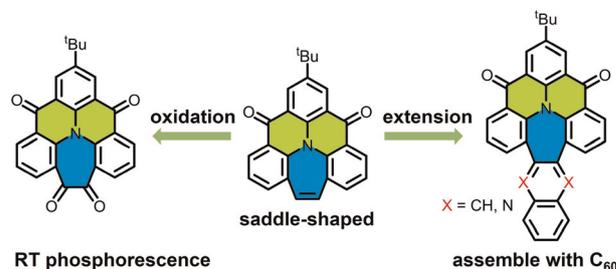
Ryu Tadano, Takeshi Yasui and Yoshihiko Yamamoto\*



5533

## A negatively curved carbonyl-bridged triphenylamine

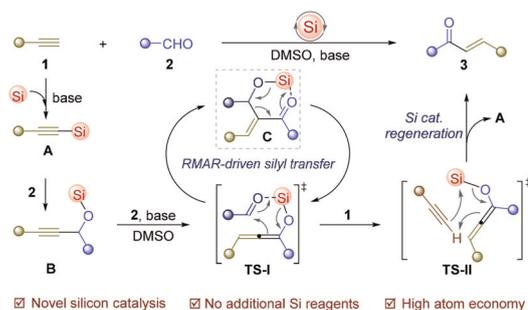
Lin Wan, Yude Ji, Zikang Ma, Chengguo Yan, Weifan Wang and Gang Zhang\*



5540

## Retro-Mukaiyama aldol reaction-driven silicon catalysis

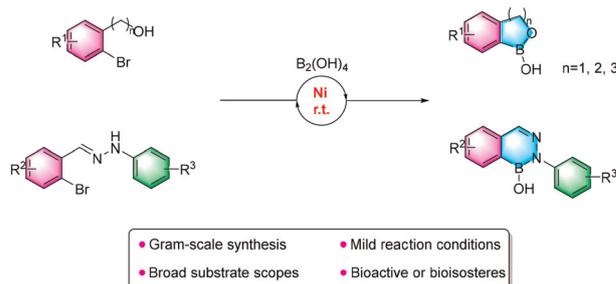
Yongjing Dong, Yue Hu,\* Yiqing Wang, Liqun Jin and Yinjun Xie\*



5547

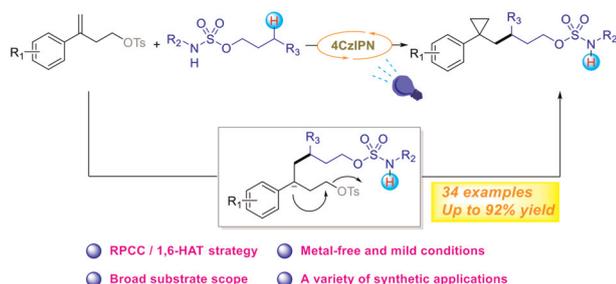
## Room-temperature nickel-catalyzed borylation/cyclization for the synthesis of benzoxaboroles and benzodiazaborines

Xiaoning Yang, Shuyan Wu, Jiayi Wang, Yanqing Peng and Gonghua Song\*



## RESEARCH ARTICLES

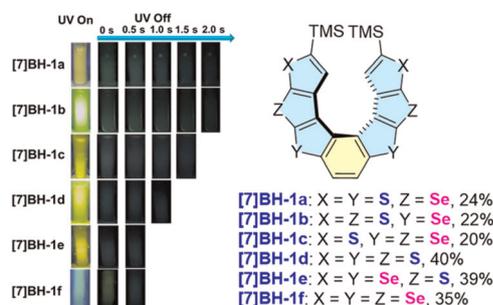
5553



### Radical-polar crossover cyclization: visible-light-induced synthesis of $\gamma$ -alkylated 1,1-disubstituted cyclopropanes via 1,6-hydrogen atom transfer

Meiling Ye, Hang Wang, Min Liao, Zeyu Tian, Zhongzhen Yang\* and Yong Wu\*

5559

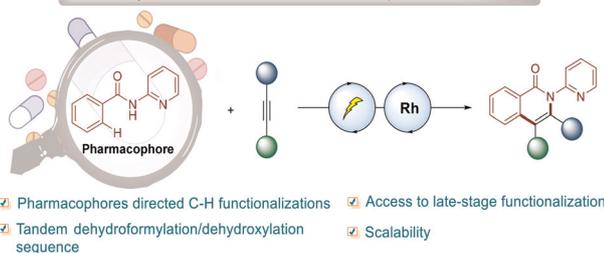


### Sulfur/selenium atom-incorporated hetero[7]helicenes for low-temperature circularly polarized phosphorescence

Shuai Qiu, Yuexia Dong, Wan Xu,\* Sheng Zhang, Chunli Li and Hua Wang\*

5566

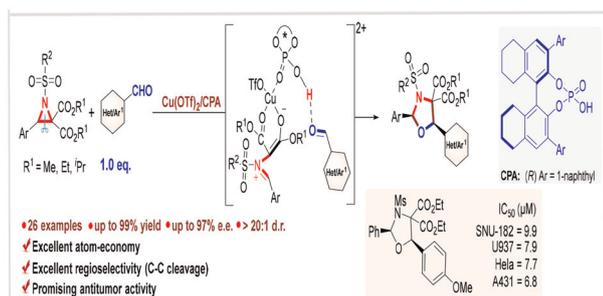
#### Pharmacophores Directed Rhodaelectro-Catalyzed C–H Activations



### Rhodaelectro-catalyzed C–H activations directed by pharmacophores: enabling modification of bioactive compounds

Shangyong Wu, Binbin Yuan, Yongke Lei, Xiaoli Su, Tristan von Münchow, João C. A. Oliveira, Xuewu Huang, Zhaojun Ding, Rongrong Xu, Lutz Ackermann\* and Jiayu Mo\*

5573



### Cu/chiral phosphoric acid-catalyzed asymmetric (3 + 2) cycloaddition of donor–acceptor aziridines with aldehydes: synthesis of enantioenriched oxazolidines as potential antitumor agents

Zhichao Shi, Tingting Fan, Jin-Shun Lin,\* Weibin Xie, Feng Zhan, Zhe Wang, Qinglu Zuo, Haoran Fu, Xun Zhang, Qiuhua Huang and Yuyang Jiang\*

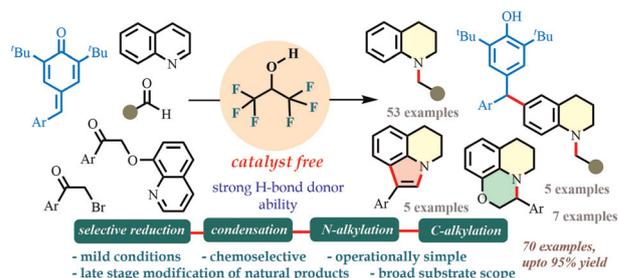


## RESEARCH ARTICLES

5582

### Tandem reductive alkylation of quinolines to functionalized tetrahydroquinolines enabled by HFIP

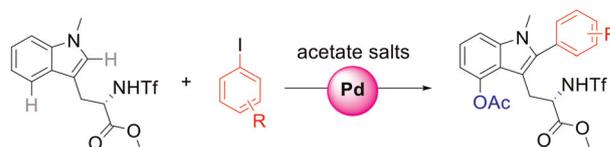
Siddhartha Kumar Senapati, Tapashi Das and Animesh Das\*



5591

### One-pot C2-arylation and C4-acetoxylation of tryptophan derivatives via palladium-catalyzed tandem C–H activation

Jia-Tian Liu, Jiashu Liu, Qi-Long Hu and Jian Li\*

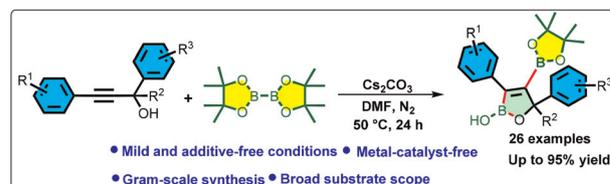


- Tandem C-H activation
- Mild conditions
- One-pot procedure
- Gram-scale

5597

### Synthesis of 1,2-oxaborole via base-mediated borylation of propynols

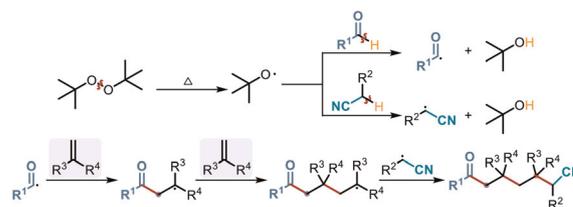
Sumit Ghosh, Sudip Laru, Mukta Singsardar and Alakananda Hajra\*



5603

### Radical 1,4-acylcynoalkylation of alkenes for the synthesis of $\zeta$ -ketonitriles

Ying Tong, Jia-Yao Feng, Cuiyan Wu, Shi-Qing Zhang, Ming-Qi Yang, Sheng Du, Dong-Qing Yang, Keqi Tang,\* Chao Deng and Wen-Ting Wei\*

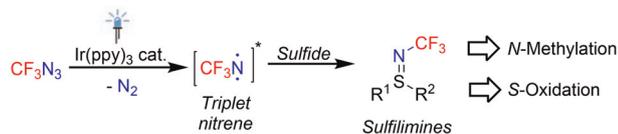


- The first case of 1,4-acylcynoalkylation of two-component alkenes
- The applicability to two identical alkenes without electronic differentiation
- The synthesis of  $\zeta$ -ketonitriles from commercial reagents only using oxidant
- The construction of three C–C bonds in one-step with high step-economy



## RESEARCH ARTICLES

5610

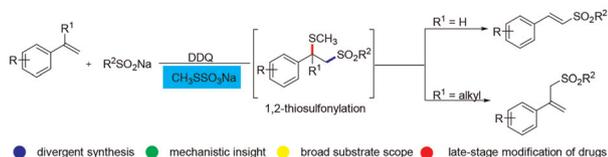


### Synthesis of *N*-trifluoromethylsulfilimines via trifluoromethyl nitrene and their synthetic potential

Norbert Baris, Martin Dračinský, Luca Julianna Tóth, Blanka Klepetářová and Petr Beier\*

5616

Tandem addition-elimination



### Bunte salt-mediated sulfonation of alkenes with sodium sulfonates

Kemeng Zhang, Shuodan Ding, Jie Zhou,\* Xinyu Zhou, Ge Wu\* and XinLei Wu\*

## REVIEWS

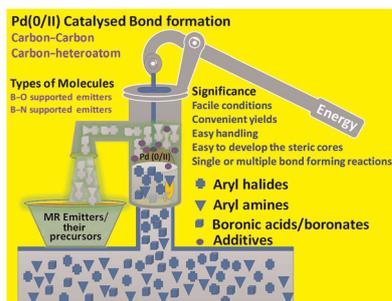
5622



### The construction of aromatic rings by photocatalytic radical-induced cyclization reactions

Xi-Ni Luo, Dong-Qing Yang, Hong-Lin Wu, Jia-Yao Feng, Sheng Du, Yu He, Rong-Nan Yi,\* Jun-Qi Zhang, Keqi Tang\* and Wen-Ting Wei\*

5644



### Crucial role of palladium(0/II) catalysts in the synthesis of multi-resonance thermally activated delayed fluorescence emitters

Ajeet Chandra,\* Paramasivam Palanisamy, Aradhya Rajput and Jang Hyuk Kwon\*



5683

## Radical di- and multi-functionalization of alkenes: recent advances in diverse reaction modes utilizing TBHP as reactants

Jiantao Zhang,\* Renhua Su and Weibing Liu\*

