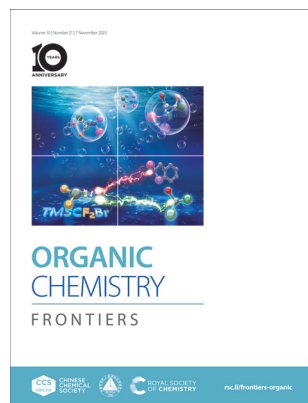


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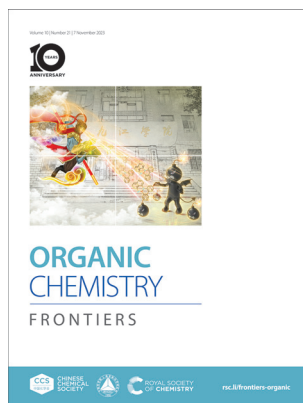
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#### Cover

See Jinbo Hu *et al.*, pp. 5343–5351.

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#### Inside cover

See Changlong Xu, Xiaohua Cao, Huanan Huang *et al.*, pp. 5352–5361.

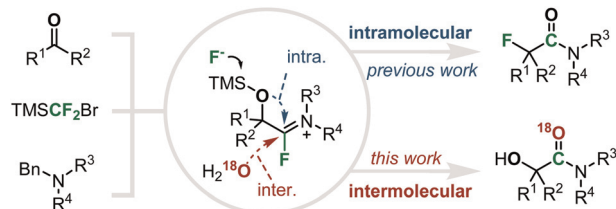
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### RESEARCH ARTICLES

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#### From intramolecular cyclization to intermolecular hydrolysis: TMSCF<sub>2</sub>Br-enabled carbonylation of aldehydes/ketones and amines to $\alpha$ -hydroxyamides

An Liu, Shuo Sun, Qiqiang Xie, Rumin Huang, Taige Kong, Chuanfa Ni and Jinbo Hu\*

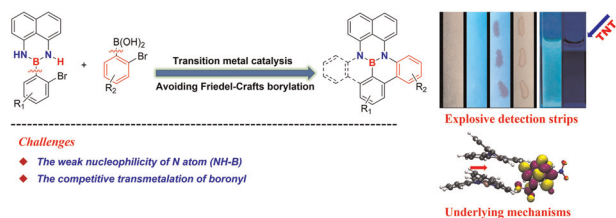


from intramolecular cyclization to intermolecular hydrolysis

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#### NBN embedded phenalenes as a new class of zigzag type polycyclic aromatic hydrocarbons for explosive detection

Han Xu, Junxiong Yao, Wenjue Tu, Xiaomin Zheng, Huimin Fu, Qixing Xu, Shengting Zhang, Jiaqi Li, Hanbin Wang, Jie Fang, Jing Yang, Changlong Xu,\* Xiaohua Cao\* and Huanan Huang\*



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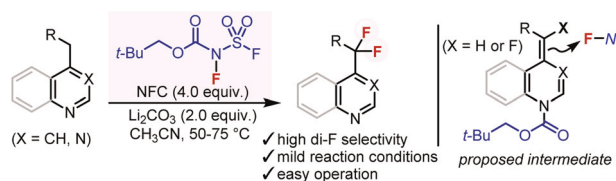


## RESEARCH ARTICLES

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**Difluorination of heterobenzyl C–H bonds with *N*-fluoro-*N*-(fluorosulfonyl)carbamate (NFC)**

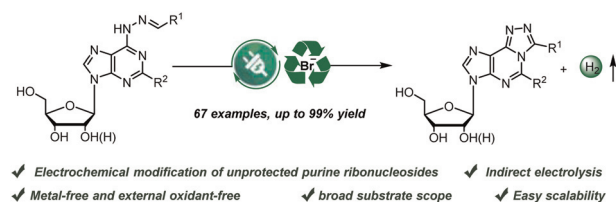
Akiya Adachi, Takuya Hashimoto,\* Kohsuke Aikawa,\* Kyoko Nozaki and Takashi Okazoe



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**Electrocatalytic oxidative C–H cycloamination towards tricyclic [1,2,4]triazolo-[3,4-*i*]purine nucleosides mediated by bromide ions**

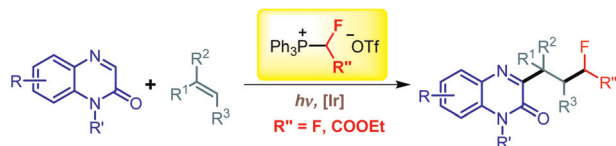
Qi-Liang Yang,\* Wan-Wan Li, Zhong-Xu Zhang, Han-Meng Zhang, Xian-Jia Li and Hai-Ming Guo\*



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**Direct C(sp<sup>2</sup>)–H fluoroalkylation of quinoxalin-2 (1*H*)-ones with (fluoroalkyl)triphenylphosphonium salts and alkenes**

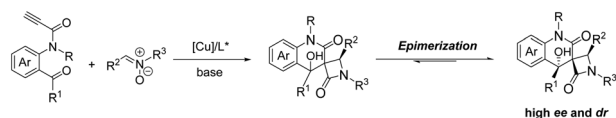
Wenwen Wang, Tonghao Zhu\* and Jie Wu\*



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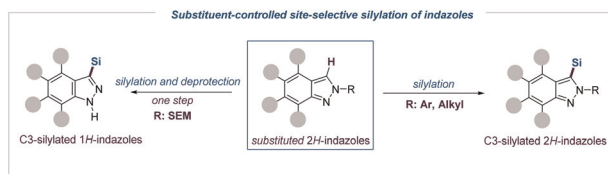
**Highly diastereo- and enantioselective synthesis of spiro  $\beta$ -lactams via copper-catalyzed Kinugasa/aldol cascade reaction**

Jie Li, Haowen Ma, Xianqiang Zhong, Shanyue Li, Jiehao Zhang, Yunlin Ao, Wei Zhou\* and Qian Cai\*



## RESEARCH ARTICLES

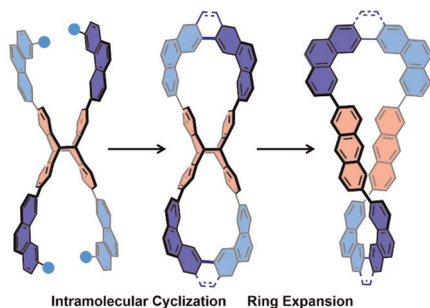
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### Substituent-controlled site-selective silylation of 2H-indazoles to access silylated 1H-indazoles and 2H-indazoles under transition metal-free conditions

Jia Jia, Shuai Chen, Ting Mao, Jinlan Li, Weipiao Li, An-Jun Wang, Dezhi Yang, Zhengli Liu,\*  
Chun-Yang He\* and Zhang Feng\*

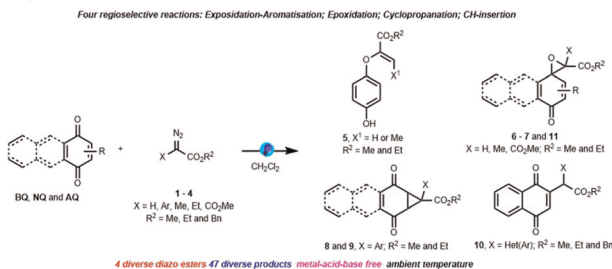
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### Conjugated figure-of-eight macrocycles derived from the anthracene photodimer: synthetic execution through intramolecular cyclization and topological manipulation through ring expansion

Lijie Zhan, Hongyan Xiao, Jia-Nan Gao and Huan Cong\*

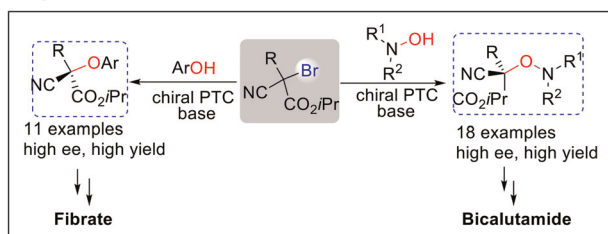
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### Theoretical studies to predict the utility of diazo esters in their reactions with 1,4-quinones: experimental validation *via* a visible light driven metal free process

Tejas Prabakar, Subhankar Bera, Shagun Singh, Anubhuti Srivastava, Manasi Chandrachood, Debajit Maiti, Naiwrit Karmodak\* and Subhabrata Sen\*

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### Bisguanidinium-catalyzed formation of oxygen-containing quaternary stereogenic carbon centers

Xu Ban,\* Changxing Chen, Kha Tuan Khoa, Chao Wang, Zhiyong Jiang and Choon-Hong Tan\*

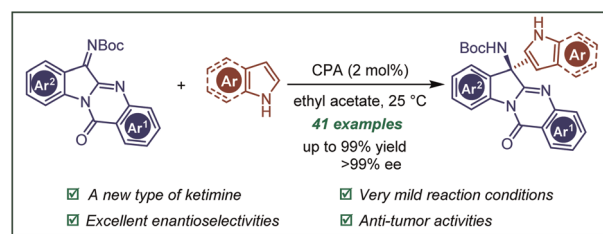


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### Enantioselective synthesis of tryptanthrin derivatives enabled by an asymmetric aza-Friedel–Crafts reaction

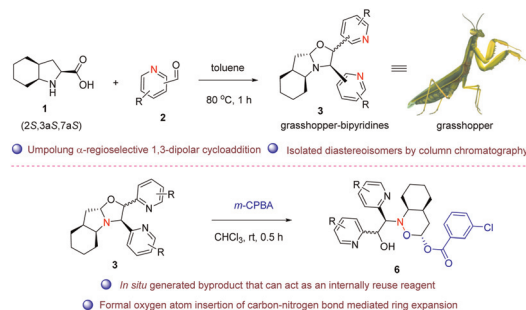
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### Umpolung $\alpha$ -regioselective 1,3-dipolar cycloaddition and internal recycle of byproduct as two key strategies: access to diverse chiral bipyridines

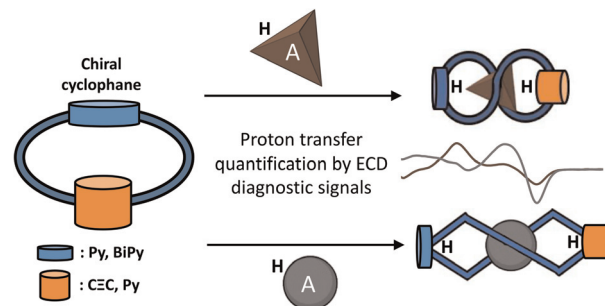
Yu-Heng Wang, Xi-Rui Wang, Ke-Lan Xu, Zi-Yue Chen, Bo-Wen Pan, Li-Jun Peng,\* Ying Zhou and Xiong-Li Liu\*



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### Deciphering the degree of proton-transfer in pyrido-cyclophanes by chiroptical outcomes in non-aqueous solvents

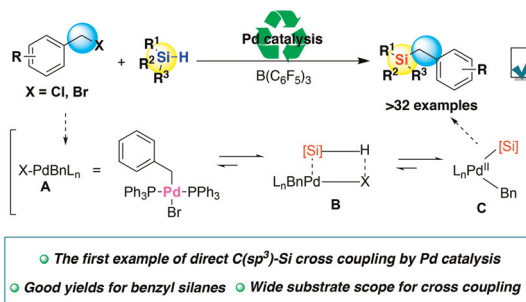
Jonathan Álvarez-García, Víctor Rubio-Pisabarro, Luis García-Río and María Magdalena Cid\*



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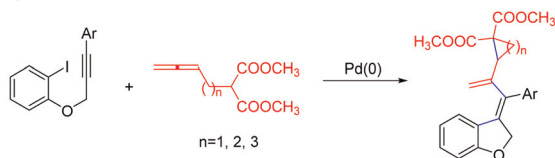
### Palladium-catalyzed $C(sp^3)$ –Si cross-coupling silylation of benzyl halides with hydrosilanes

Xiao-Hua Zhou, Jun-Hui Zhu, Guang-Ao Song, Xin-Li Jiang, Xiao-Jun Fang, Zheng Xu and Li-Wen Xu\*



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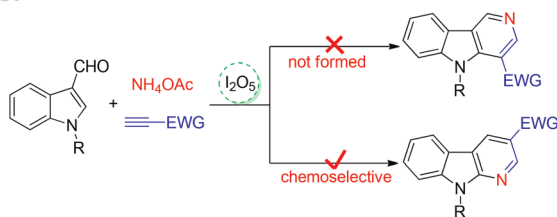


- 39 Examples up to 87% yield
- High regio- and stereoselectivity
- General substrate scope
- Three new C-C bond and two ring formation

### Palladium-catalyzed bicyclization of alkynyl aryl iodide with allenyl malonates

Ping-Xin Zhou,\* Yang Liu, Xueyan Du, Ning Liu, Kexin Li, Yuji Wu, Wang Feng, Xu Liu and Yingying Kong\*

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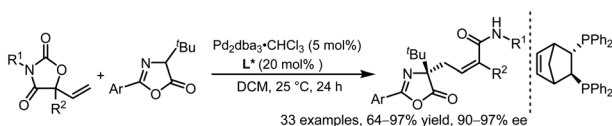


- ▲ Chemoselective synthesis
- ▲ Metal- and additive-free conditions
- ▲ Readily available starting materials
- ▲ Gram scale synthesis
- ▲ Significant synthetic application
- ▲ 37 examples, up to 93%

### Chemoselective three-component synthesis of $\alpha$ -carbolines under metal-free conditions

Wei Feng, Chao Zhang, Xinlin Zhou, Kuiyi You,\* Guo-Jun Deng\* and Shanping Chen\*

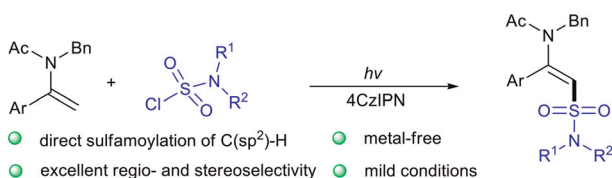
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### Palladium-catalyzed regio- and stereoselective allylic alkylation of 5-vinylloxazolidine-2,4-diones with azlactones: synthesis of chiral (Z)-trisubstituted allylic amino acid derivatives

Kuan Li, Lan Wang, Shuo Zhen, Lihan Zhu, Songcheng Yu, Yongjun Wu and Hongchao Guo\*

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- direct sulfamoylation of C(sp<sup>2</sup>)-H
- metal-free
- excellent regio- and stereoselectivity
- mild conditions

### Photocatalytic C(sp<sup>2</sup>)-H sulfamoylation of enamides: regio- and stereoselective construction of (E)- $\beta$ -sulfamoyl enamides

Lingli Liu, Yechun Wu, Xian Wu, Jin-Tao Yu\* and Changduo Pan\*



## RESEARCH ARTICLES

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**Nickel-catalyzed reductive coupling of nitroarenes and phosphine oxides to access phosphinic amides**

Meixia Liu, Huimin Hu, Runbo Sun, Haoyuan Li, Anjun Ding, Xiaoyong Liu, Zhengjiang Fu, Shengmei Guo\* and Hu Cai\*



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**Reductive thiolation and oxidative dehydroaromatization of cyclohexanones with primary amines and sodium sulfinates to access o-sulfanylanilines**

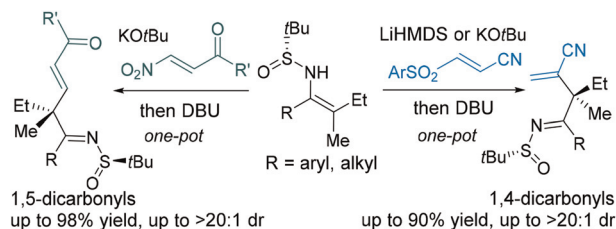
Hui Wu, Lin Zhao, Wenting Wang, Yining Yu and Ge Wu\*



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**Stereoselective formal alkenylation of  $\beta,\beta$ -disubstituted enesulfinamides for constructing 1,5- and 1,4-dicarbonyl derivatives bearing less-accessible acyclic  $\alpha$ -quaternary stereocenters**

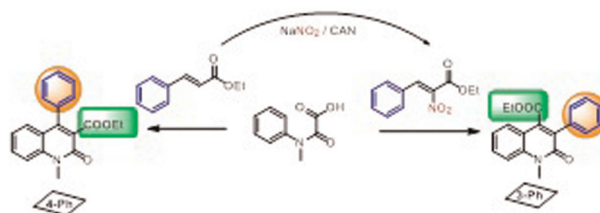
Chong-Lin Zhu and Chong-Dao Lu\*



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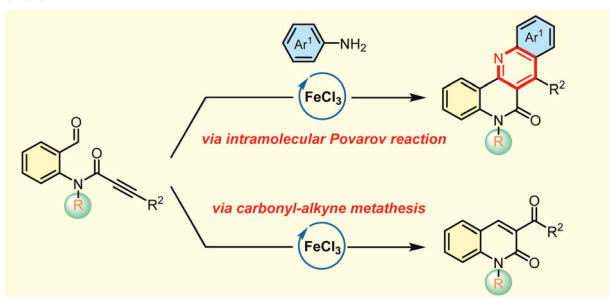
**Nitro – a traceless directing group for reversing the radical site-selectivity of styrene derivatives**

Zhenxing Zhang, Xin Zhang, Yaxin Wang, Yang Liu, Yu Wang, Xinhao Zhang,\* Junyan Ma\* and Lijuan Song\*



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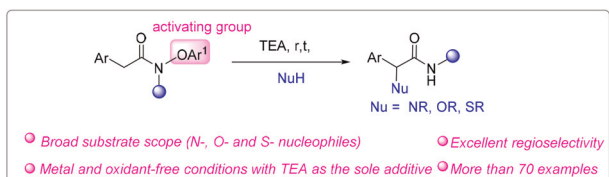
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### Iron-catalyzed divergent approach to naphthyridinones and quinolinones: leveraging Povarov and carbonyl-alkyne metathesis reactions of electron deficient alkynes

Jia-ming Chen, Jun-hua Li, Li-cheng Xie, Hui-ke Fan, Xia-xin Sheng, Yu-jia Du, Guo-ying Liu, Hao Hu, Yan Jiang\* and Ming Chen\*

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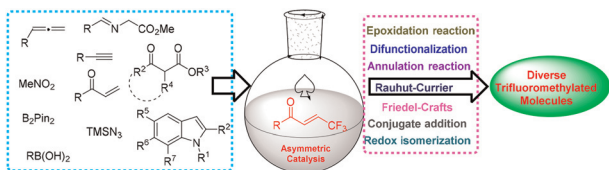


### Regioselective heterofunctionalization of alpha-aryl amides with heteroatom nucleophiles via electrophilic activation

Shuai Han, Yu Guo,\* Wei Zhang, Jinjin Chen, Zhen Wang\* and Yao-Fu Zeng\*

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### $\beta$ -Trifluoromethylated enones as trifluoromethylated synthons in asymmetric catalysis

Xiufang Cheng, Wenjin Niu, Huamin Wang\* and Ying-Wu Lin\*

