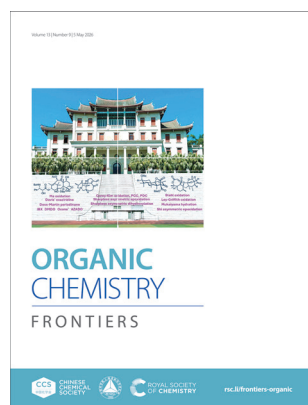


### IN THIS ISSUE

ISSN 2052-4129 CODEN OCFRA8 13(9) 2665-2996 (2026)



#### Cover

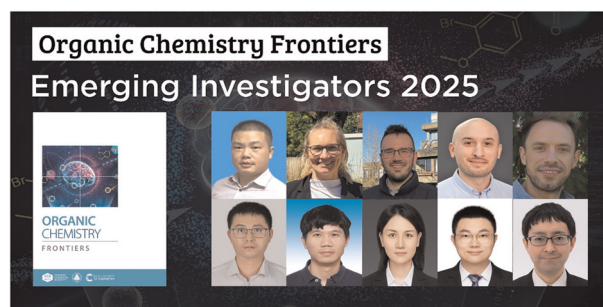
See Jian-Feng Zheng, Anqi Chen, Pei-Qiang Huang *et al.*, pp. 2919–2993.

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### PROFILE

2676

#### Contributors to the *Organic Chemistry Frontiers* Emerging Investigator Series 2025

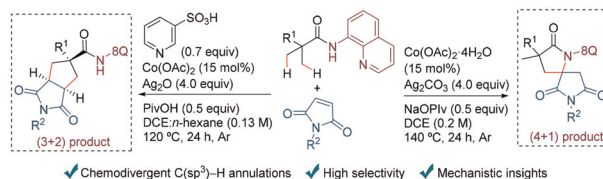


### RESEARCH ARTICLES

2679

#### Cobalt-catalyzed C–H annulation of aliphatic amides with maleimides: chemodivergent (4 + 1) and (3 + 2) pathways

Celia Sánchez-González, Juan C. Carretero, Inés Alonso,\* Nuria Rodríguez\* and Javier Adrio\*



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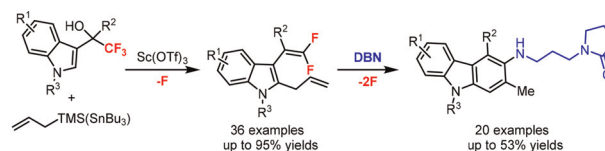
Fundamental questions  
Elemental answers

## RESEARCH ARTICLES

2690

### Access to 3-amino-carbazoles from CF<sub>3</sub>-3-indolylmethanols via Sc(OTf)<sub>3</sub>-catalyzed C2-defluorinative allylation and DBN-promoted defluorinative annulation

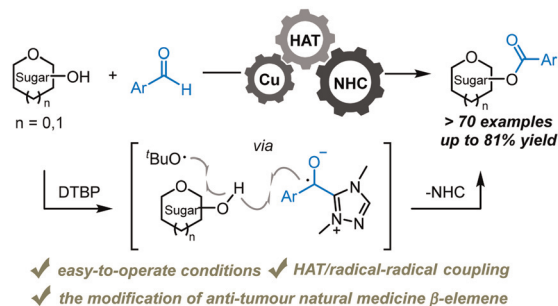
Qing Liu, Xin Liu and Weidong Rao\*



2697

### Hydrogen atom transfer enabled acylsugar synthesis via cooperative copper and NHC catalysis

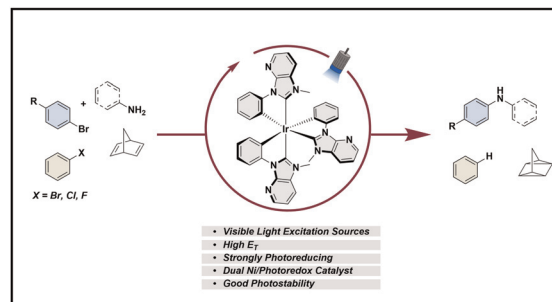
Yuqiong Tan, Yu Xiang and Yang Ye\*



2707

### mer-Ir(pmp)<sub>3</sub> as a strongly photoreducing and stable Ir(C<sup>Λ</sup>C)<sub>3</sub> photocatalyst for metallaphotoredox catalysis

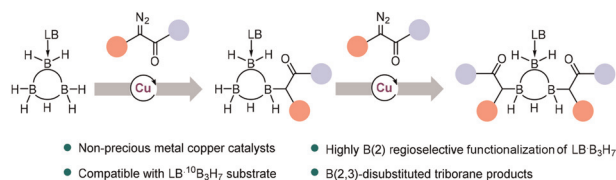
Máire Griffin and Eli Zysman-Colman\*



2719

### A copper-catalyzed B–H bond insertion reaction of triboranes (L·B<sub>3</sub>H<sub>7</sub>) with diazo compounds

Lei Cao, Jia-Rui Chang, Xi-Meng Chen,\* Yan-Na Ma\* and Xuenian Chen\*

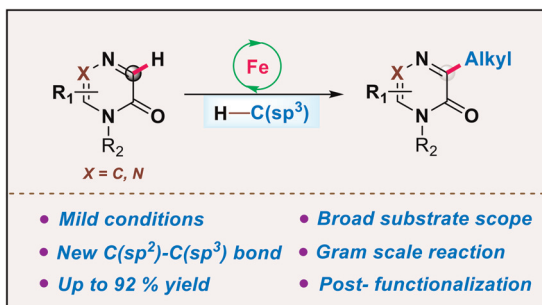


- Non-precious metal copper catalysts
- Highly B(2) regioselective functionalization of LB<sub>3</sub>H<sub>7</sub>
- Compatible with LB<sup>10</sup>B<sub>3</sub>H<sub>7</sub> substrate
- B(2,3)-disubstituted triborane products



## RESEARCH ARTICLES

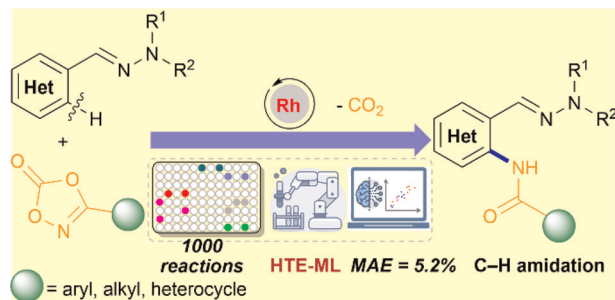
2725



### Site-selective iron-catalyzed C–H alkylation of pyrazinones, azauracils and quinoxalinones

Vaibhav Ramchandra Pansare, Sreelakshmi N and Nagaraju Barsu\*

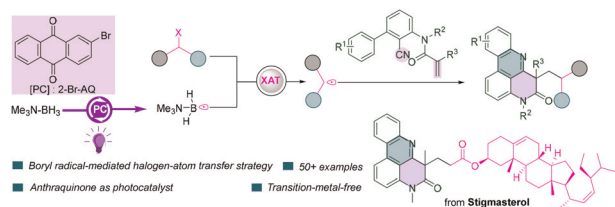
2730



### High-throughput screening and machine learning prediction of Rh-catalyzed *ortho*- $C(sp^2)$ -H amidation of arylaldehyde hydrazones

Yan Zhang, An Lin, Cuitong Zhou, Jingyuan Liu, Yahuan Wang, Xinwei Zhu, Lebin Su\* and Kuangbiao Liao\*

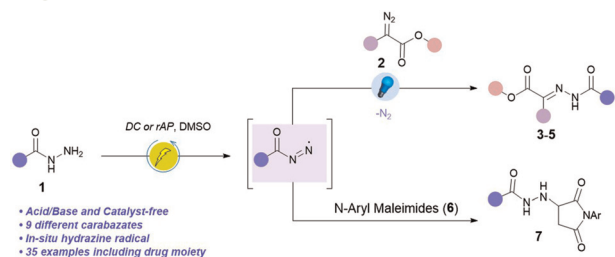
2742



### Boryl radical-mediated halogen atom transfer-induced radical cascade cyclization of *N*-(*o*-cyanobiaryl)acrylamides with alkyl halides

Long-Jin Zhong, Xuan Shang, Peng-Fei Huang, Quan Zhou,\* Chang-Hui Liu\* and Yu Liu\*

2749



### A divergent electrochemical platform for diazene radical generation and C–N coupling reactions

Roopam Pandey, Suchismita Rath, Yashika Tyagi, Shivani Jadon, Tejas Prabakar, Shreemad Patel, Debajit Maiti and Subhabrata Sen\*

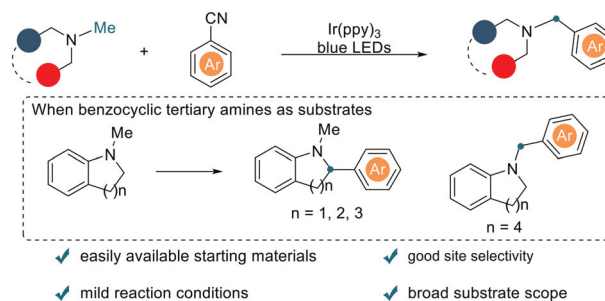


## RESEARCH ARTICLES

2762

## Photocatalyzed regioselective arylation of trialkylamines

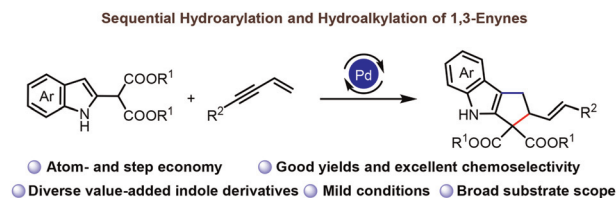
Jiamin Wu, Xin Wang, Kuai Wang\* and Ling-Guo Meng\*



2768

## Palladium-catalyzed hydrofunctionalization cyclization of 1,3-enynes to access cyclopenta[b]indoles

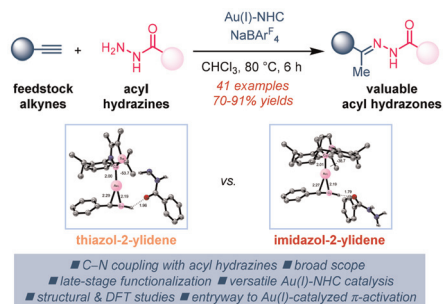
Zonglin Ma, Xihang Lu, Hequan Yao\* and Aijun Lin\*



2775

## Ligand-enabled hydrohydrazidation of alkynes catalyzed by unsymmetrical gold(I)-thiazol-2-ylidenes

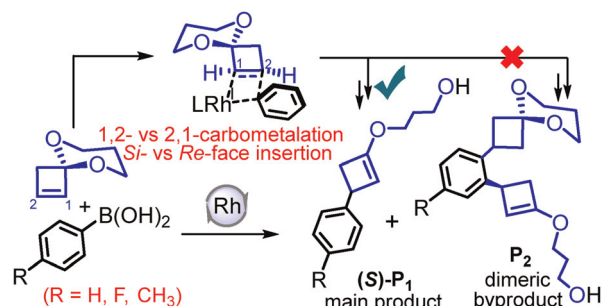
Shidi Ma, Jin Zhang,\* Yawei Zhu, Sijie Zhou, Li Sun, Jianglong Cai, Weixi Yang and Michal Szostak\*



2782

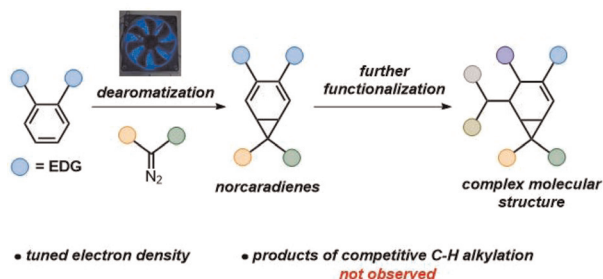
## Theoretical insight into the mechanism, selectivity, and substituent effects in Rh-catalyzed asymmetric arylation of cyclobutenone ketals with arylboronic acids

Jinzhao Wang, Qiang Zhang, Li Jiang, Rongxiu Zhu and Dongju Zhang\*



## RESEARCH ARTICLES

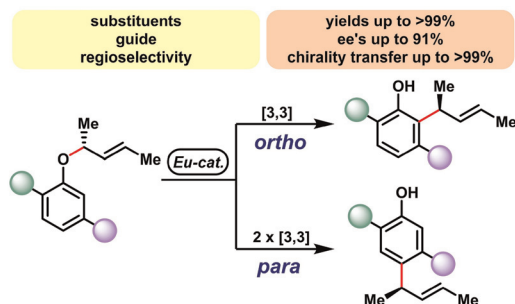
2794



### Reaction profiling of visible-light-mediated [2 + 1] dearomatization vs. alkylation of electron-rich arenes with aryldiazoacetates: real-time NMR monitoring, kinetics, and computational analysis

Karlo Petrić, Ana Čikoš, Ivana Nikšić-Franjić, Guy C. Lloyd-Jones,\* Matija Gredičak\* and Nikola Topolovčan\*

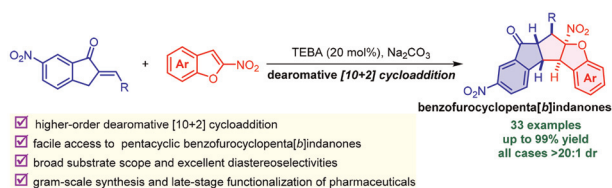
2805



### Design principles for enantiospecific *para*- and *ortho*-[3,3] rearrangements of chiral aryl-allyl ethers

Johanna Breinsperger, Maximilian Kaiser\* and Peter Gärtner

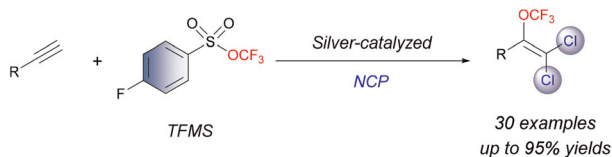
2810



### Higher-order dearomative [10 + 2] cycloaddition of 2-nitrobenzofurans and 2-alkylidene-1-indanones to access pentacyclic scaffolds

Lei Yang,\* Yu-Ting Hou, Min Zou, Yi-Ping Liu, Ming-Zhou Liao, Lin Chen, Wei-Cheng Yuan\* and Jian-Qiang Zhao\*

2817



### Silver-catalyzed regioselective direct dichlorotrifluoromethoxylation of terminal alkynes

Muhammad Bilal Altaf, Qingyun Huang\* and Pingping Tang\*

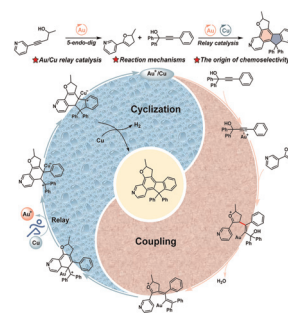


## RESEARCH ARTICLES

2823

### Unveiling the mechanisms of gold/copper bimetallic catalysis in the synthesis of complex heterocyclic compounds

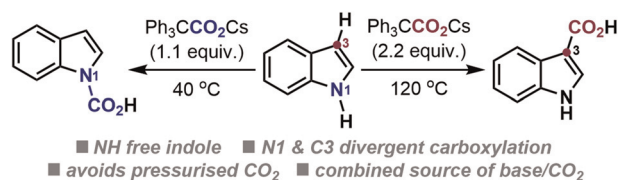
Fengjuan Ma, Qing Sun,\* Jingxin Hu, Xin Cheng, Huiwen Zheng, Lei Zhou, Xin Lu, Yidong Luo\* and Renjie Song\*



2833

### Regiodivergent N1- and C3-carboxylation of indoles

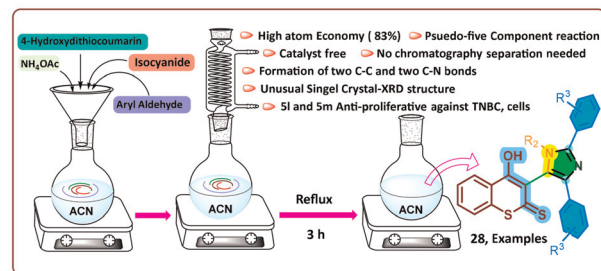
Xia Liu, Zhi Li, Congman Song, Guiqing Xu and Duanyang Kong\*



2841

### Green synthesis of a 4-hydroxydithiocoumarin-imidazole bis-heterocycle scaffold, and its antiproliferative study and unusual single-crystal XRD pattern

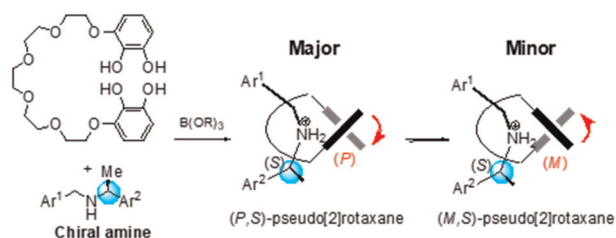
Ahmad Ali, Nur Amin, Sikhamoni Begam, Pijush Kanti Khanra, Siddhartha Sankar Ghosh and Abu Taleb Khan\*



2858

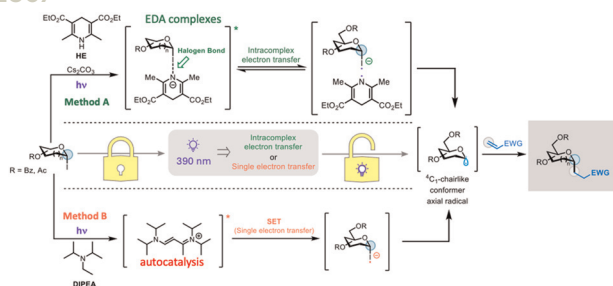
### Synthesis of chiral rotaxanes: controlling the molecular chirality of bis-catechol spiroborate through threading

Kion Takada, Rin Usui, Takumi Takizawa, Masaya Naito, Yusuke Okada, Nagao Kobayashi, Shinobu Miyagawa and Yuji Tokunaga\*



## RESEARCH ARTICLES

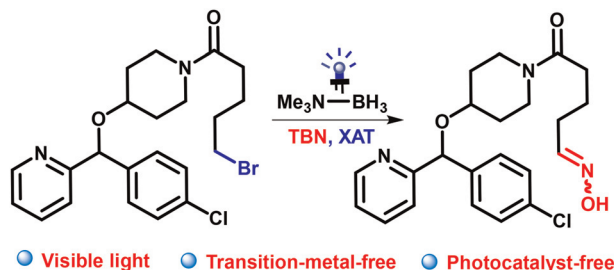
2867



### Synthesis of $\alpha$ -C-glycoside conjugates via a Giese-like reaction triggered by photoactivated electron donor–acceptor (EDA) complexes and *in situ* photocatalytic species

Francesco Riina, Giulio Chiarello, Lorenzo Poletti, Daniele Ragno, Carmela De Risi, Mirco Natali, Federico Droghetti, Alessandro Massi and Graziano Di Carmine\*

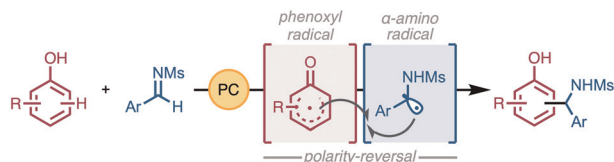
2875



### Visible-light-driven dehalogenative oximation of alkyl halides

Feng Xu, Dayong Shi and Ruihua Liu\*

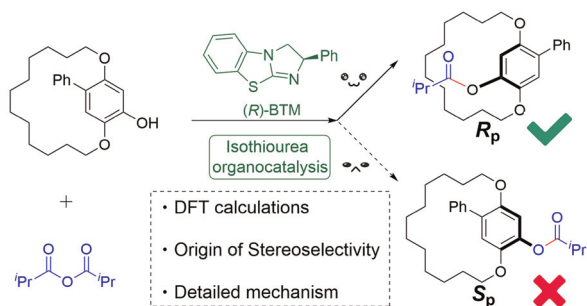
2883



### Photocatalytic coupling of phenols with imines via polarity reversal

Cindy R. Liu, Christopher A. Sojda and Marisa C. Kozlowski\*

2888



### Isothiurea-catalyzed acylation of paracyclophanols for the construction of planar chirality: the mechanism and origin of stereoselectivity

Haowen Chen, Lan Yu\* and Donghui Wei\*

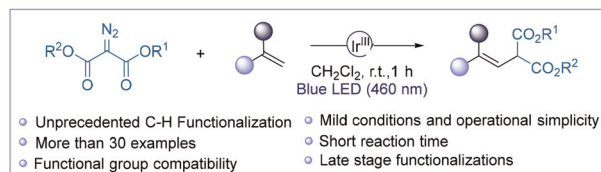


## RESEARCH ARTICLES

2896

### Visible-light-driven C–H functionalization of double bonds with diazo compounds under mild reaction conditions

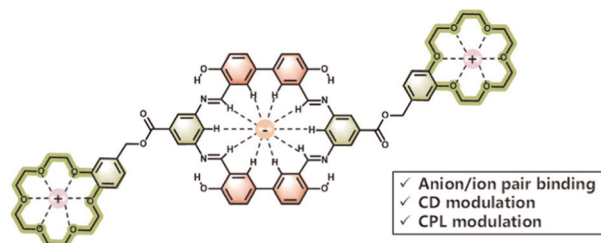
Miguel A. Valle-Amores, Benedetta Carli, Ian MacLean, Lara Martínez-Fernández, Raúl Pérez-Ruiz, Leyre Marzo,\* Alberto Fraile\* and José Alemán\*



2905

### Anion/ion pair binding and chiral modulation investigation based on an 18-crown-6-functionalized Schiff base macrocyclic receptor

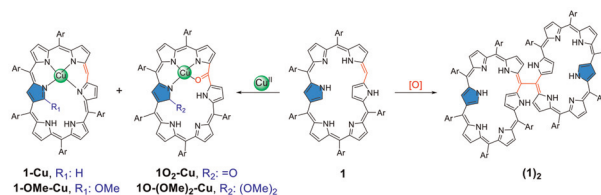
Channi Cheng, Shoucheng Sun, Dezhi Zhao, Chengyou Han\* and Feng Wang\*



2912

### A mono-meso-free N-confused hexaphyrin with tunable NIR absorption: synthesis, coordination, and oxidative dimerization

Lingfang Zhang, Zhengpeng Huang, Qizhao Li, Glib Baryshnikov, Bin Zhu, Mingbo Zhou, Chengjie Li, Hans Ågren, Shijun Li, Jianxin Song and Yongshu Xie\*



## REVIEW

2919

### Oxidation reactions in the current total synthesis of natural products

Jian-Feng Zheng,\* Anqi Chen,\* Yan-Jiao Gao and Pei-Qiang Huang\*

