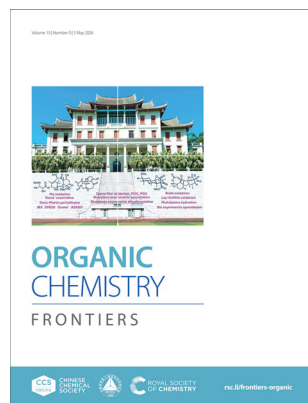


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Cover

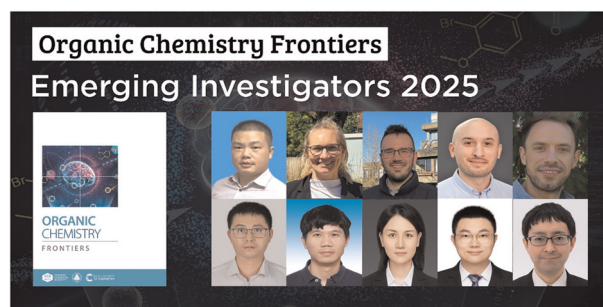
See Jian-Feng Zheng,
Anqi Chen,
Pei-Qiang Huang *et al.*,
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PROFILE

2676

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

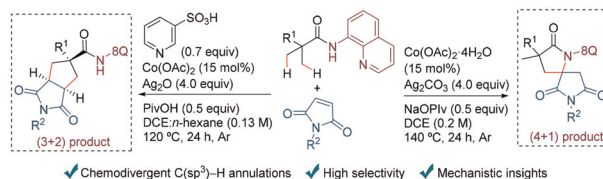


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Cobalt-catalyzed C–H annulation of aliphatic amides with maleimides: chemodivergent (4 + 1) and (3 + 2) pathways

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



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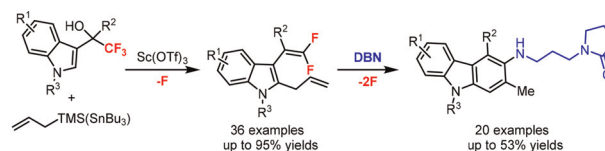
Fundamental questions
Elemental answers

RESEARCH ARTICLES

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Access to 3-amino-carbazoles from CF₃-3-indolylmethanols via Sc(OTf)₃-catalyzed C2-defluorinative allylation and DBN-promoted defluorinative annulation

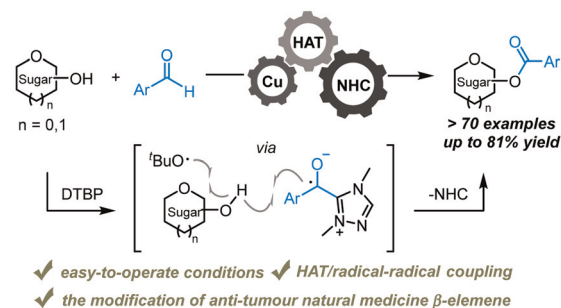
Qing Liu, Xin Liu and Weidong Rao*



2697

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

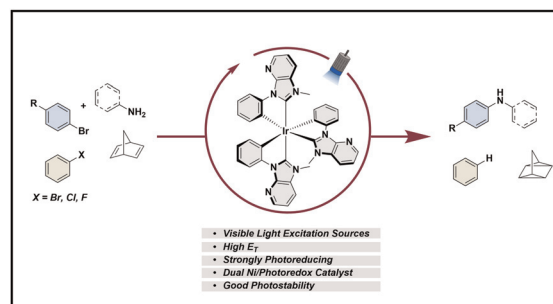
Yuqiong Tan, Yu Xiang and Yang Ye*



2707

mer-Ir(pmp)₃ as a strongly photoreducing and stable Ir(C^ΛC)₃ photocatalyst for metallaphotoredox catalysis

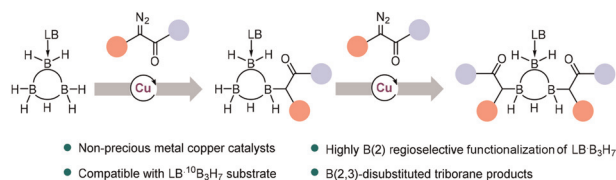
Máire Griffin and Eli Zysman-Colman*



2719

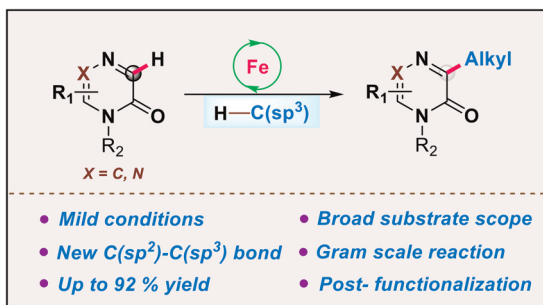
A copper-catalyzed B–H bond insertion reaction of triboranes (L·B₃H₇) with diazo compounds

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



RESEARCH ARTICLES

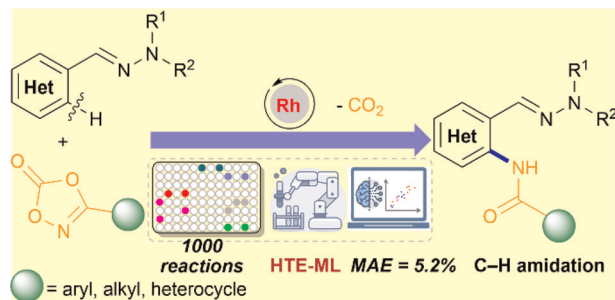
2725



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

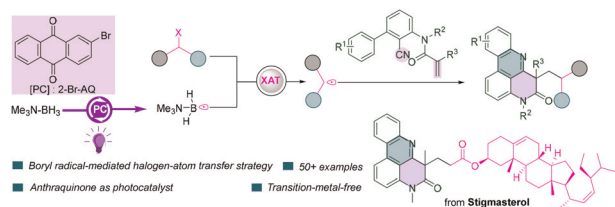
Vaibhav Ramchandra Pansare, Sreelakshmi N and Nagaraju Barsu*

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

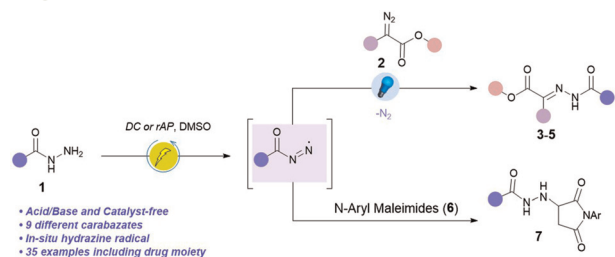
Yan Zhang, An Lin, Cuitong Zhou, Jingyuan Liu, Yahuan Wang, Xinwei Zhu, Lebin Su* and Kuangbiao Liao*

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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*

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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*

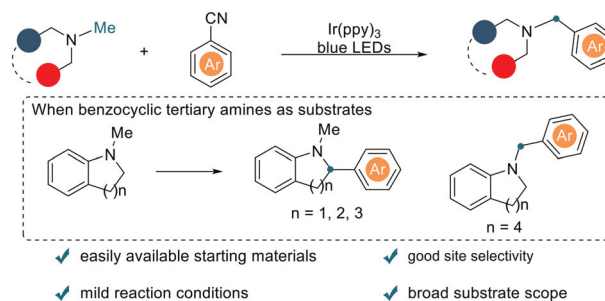


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Photocatalyzed regioselective arylation of trialkylamines

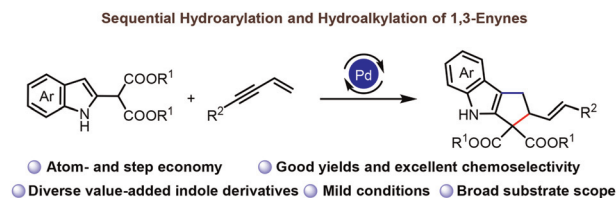
Jiamin Wu, Xin Wang, Kuai Wang* and Ling-Guo Meng*



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

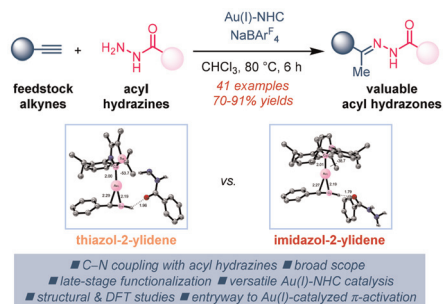
Zonglin Ma, Xihang Lu, Hequan Yao* and Aijun Lin*



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

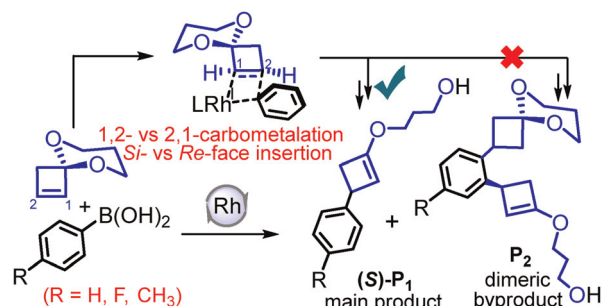
Shidi Ma, Jin Zhang,* Yawei Zhu, Sijie Zhou, Li Sun, Jianglong Cai, Weixi Yang and Michal Szostak*



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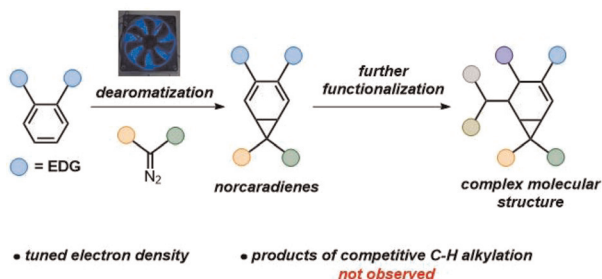
Theoretical insight into the mechanism, selectivity, and substituent effects in Rh-catalyzed asymmetric arylation of cyclobutenone ketals with arylboronic acids

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



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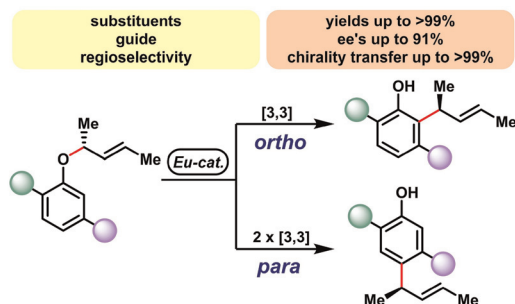
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Reaction profiling of visible-light-mediated [2 + 1] dearomatization vs. alkylation of electron-rich arenes with aryldiazoacetates: real-time NMR monitoring, kinetics, and computational analysis

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

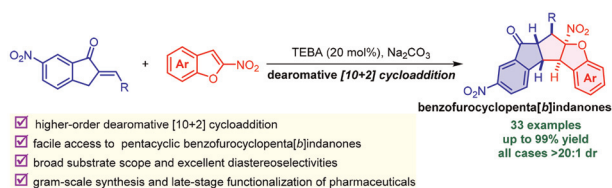
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Design principles for enantiospecific *para*- and *ortho*-[3,3] rearrangements of chiral aryl-allyl ethers

Johanna Breinsperger, Maximilian Kaiser* and Peter Gärtner

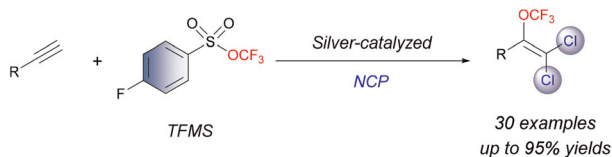
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Higher-order dearomative [10 + 2] cycloaddition of 2-nitrobenzofurans and 2-alkylidene-1-indanones to access pentacyclic scaffolds

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*

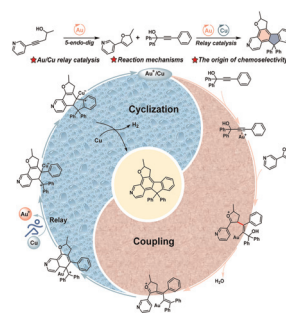


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Unveiling the mechanisms of gold/copper bimetallic catalysis in the synthesis of complex heterocyclic compounds

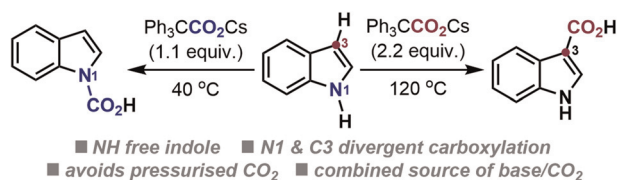
Fengjuan Ma, Qing Sun,* Jingxin Hu, Xin Cheng, Huiwen Zheng, Lei Zhou, Xin Lu, Yidong Luo* and Renjie Song*



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Regiodivergent N1- and C3-carboxylation of indoles

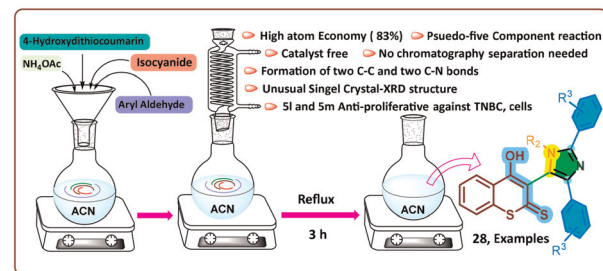
Xia Liu, Zhi Li, Congman Song, Guiqing Xu and Duanyang Kong*



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

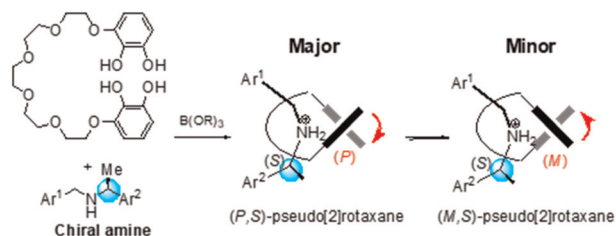
Ahmad Ali, Nur Amin, Sikhamoni Begam, Pijush Kanti Khanra, Siddhartha Sankar Ghosh and Abu Taleb Khan*



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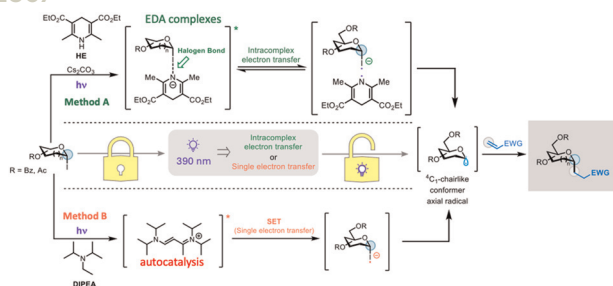
Synthesis of chiral rotaxanes: controlling the molecular chirality of bis-catechol spiroborate through threading

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



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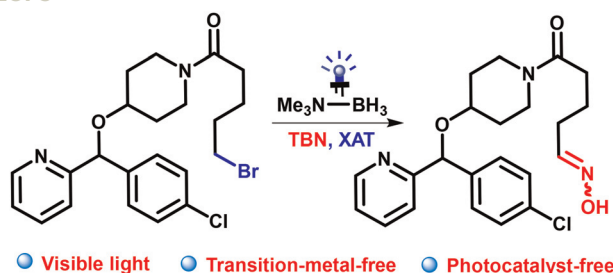
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Synthesis of α -C-glycoside conjugates via a Giese-like reaction triggered by photoactivated electron donor–acceptor (EDA) complexes and *in situ* photocatalytic species

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

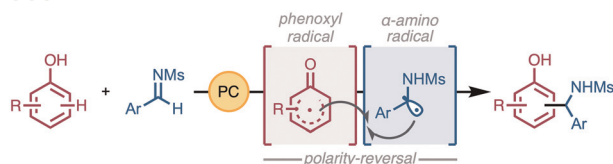
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Visible-light-driven dehalogenative oximation of alkyl halides

Feng Xu, Dayong Shi and Ruihua Liu*

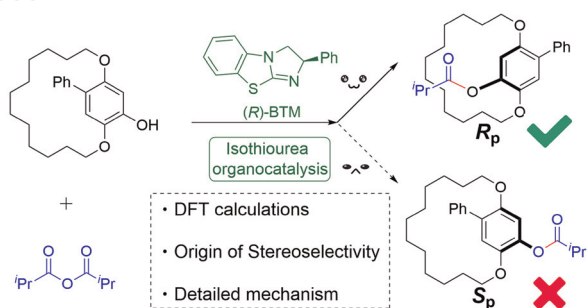
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Photocatalytic coupling of phenols with imines via polarity reversal

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

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

Haowen Chen, Lan Yu* and Donghui Wei*

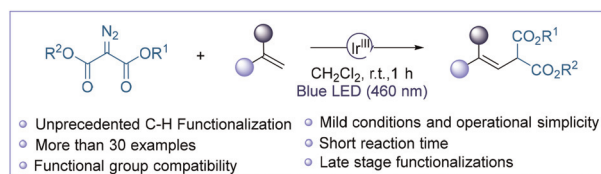


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Visible-light-driven C–H functionalization of double bonds with diazo compounds under mild reaction conditions

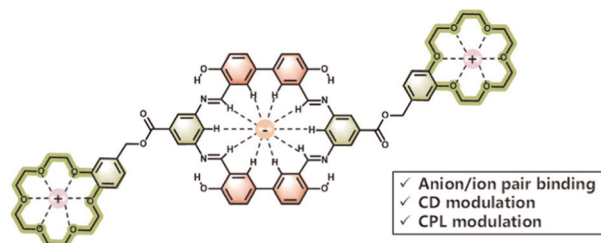
Miguel A. Valle-Amores, Benedetta Carli, Ian MacLean, Lara Martínez-Fernández, Raúl Pérez-Ruiz, Leyre Marzo,* Alberto Fraile* and José Alemán*



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

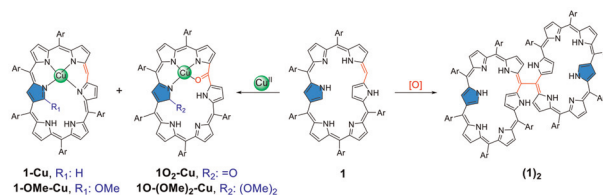
Channi Cheng, Shoucheng Sun, Dezhi Zhao, Chengyou Han* and Feng Wang*



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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

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Oxidation reactions in the current total synthesis of natural products

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

