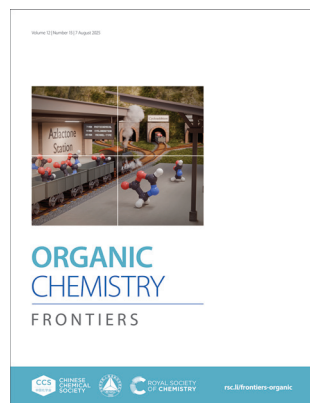


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ISSN 2052-4129 CODEN OCFRA8 12(15) 4199-4400 (2025)



Cover

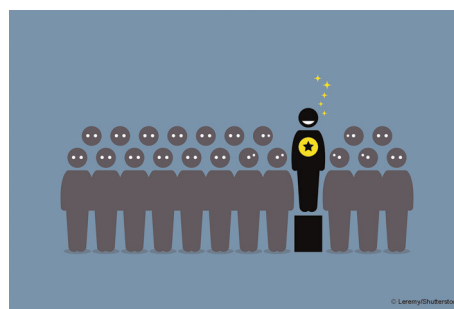
See Pedro P. de Castro, Giovanni W. Amarante *et al.*, pp. 4352–4398.

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EDITORIAL

4208

Outstanding Reviewers for *Organic Chemistry Frontiers* in 2024

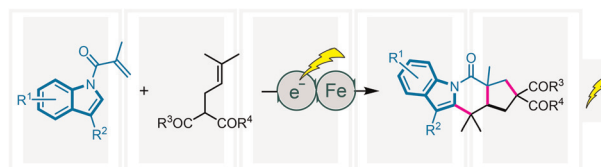


RESEARCH ARTICLES

4209

Electrochemical [3 + 2]/[4 + 2] cyclization to indole-fused polycyclics

Chengcheng Yuan, Lufang Liao, Chengkou Liu,*
Yaqi Qiao, Zheng Fang, Zefu Zheng and Kai Guo



Electrochemical [3+2]/[4+2] cyclization to indole-fused polycyclics

- good air compatibility
- good water compatibility
- good group compatibility
- three-step addition
- exogenous oxidant free
- user-friendly undivided cell



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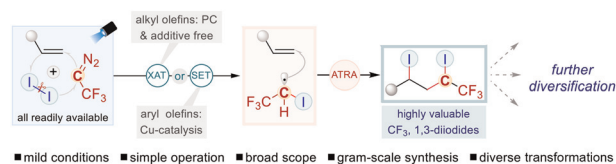
Fundamental questions
Elemental answers

RESEARCH ARTICLES

4216

Light induced interrupted alkene diiodination with carbon atom insertion: access to trifluoromethylated 1,3-diiodoalkanes

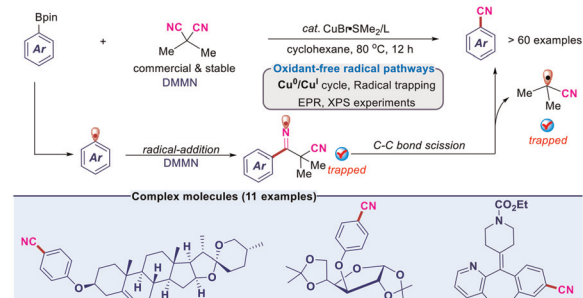
Tengfei Pang, Yu Yan, Jianjian Huang, Fangrui Zhong and Guojiao Wu*



4223

Copper-catalyzed radical transnitration of arylborons with dimethylmalononitrile and mechanistic insights

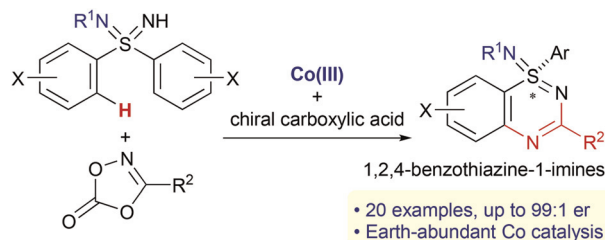
Xiaofu Jian, Xibao Zhang and Weilong Xie*



4236

Enantioselective C–H amidation of sulfondiimines for the synthesis of 1,2,4-benzothiadiazine-1-imines under cobalt catalysis

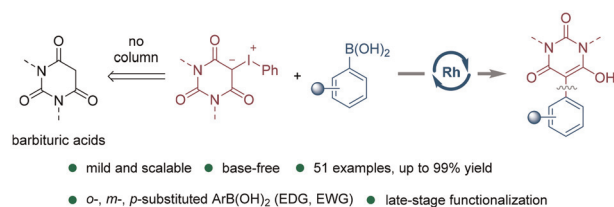
Ayami Murata, Tomonori Endo, Yuki Hirata, Kosuke Higashida, Tatsuhiko Yoshino* and Shigeki Matsunaga*



4242

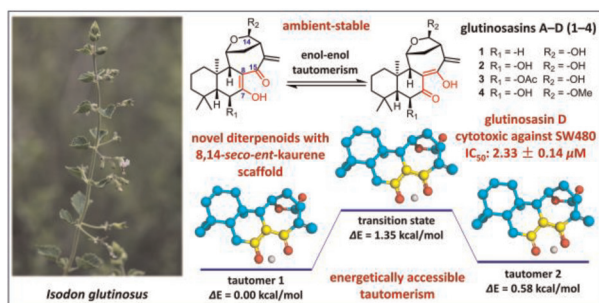
Rh(III)-catalyzed base-free α -arylation of iodonium ylides with arylboronic acids: modular synthesis of 5-aryl barbituric acids

Mengling He, Shuoying Cai, Nursemanguli Baiheti, Linmei Zhao, Huaming Tao* and Shaoyu Mai*



RESEARCH ARTICLES

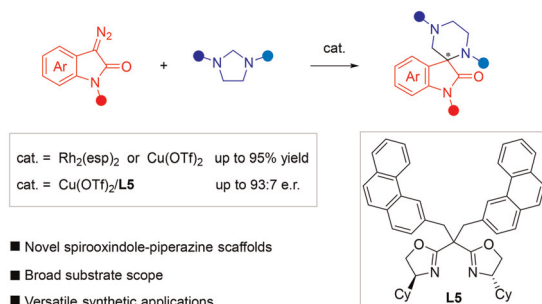
4247



8,14-seco-ent-Kaurane diterpenoids from *Isodon glutinosus*: enol–enol tautomerism and antitumor activity

Yang-Yang Fu, Kun Hu, Song-Yu Hou, Bing-Chao Yan, Xiao-Nian Li, Xing-Zhi Yang, Han-Dong Sun and Pema-Tenzin Puno*

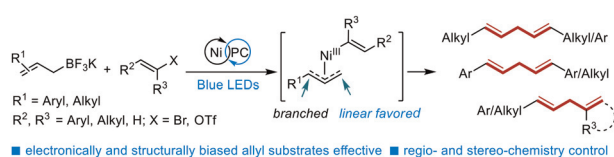
4255



Catalytic (5 + 1) cycloaddition of diazooxindoles with imidazolidines to access novel piperazine-spirooxindole frameworks

Yijun Duan, Feng Chen, Yuncheng Liu, Wendi Xu, Xue Zhang, Ming Lang and Shiyong Peng*

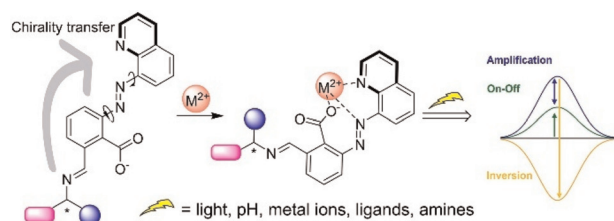
4264



Photoredox/nickel dual-catalyzed regio- and stereo-selective cross-coupling of allyl trifluoroborates with alkenyl electrophiles: synthesis of 1,4-dienes

Peizhuo Lv, Xin Xie and Yuanhong Liu*

4271



Multi-stimuli-responsive and multimode azoquinoline chiroptical switches

Zimu Liu, Youming Lv,* Hebo Ye,* Hanwei Lu and Lei You*

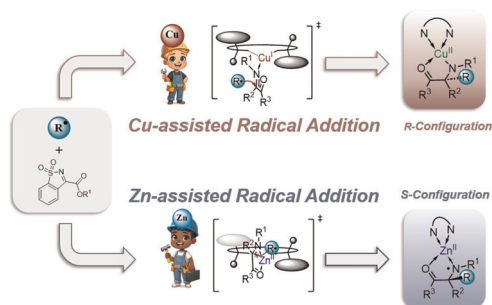


RESEARCH ARTICLES

4281

Unraveling the divergent mode of Cu- or Zn-assisted radical addition of imines: a mechanistic perspective on Lewis acidic metal-induced enantioselectivity

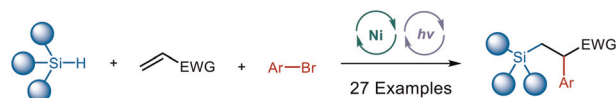
Dongmin Fu, Ruopeng Bai, Jiang Wu, Kai Yang,*
Xiaokang Guo,* Yu Lan* and Tao Zhang*



4291

Nickel/photo-cocatalyzed three-component silylation of electron-deficient alkenes

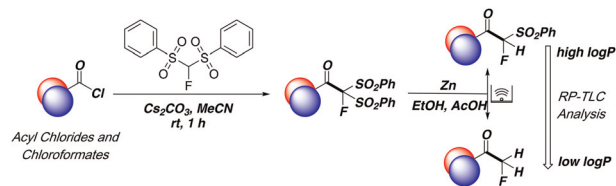
Pei Fan* and Xiao-Xue Huang



4297

Monofluoromethylation of acyl chlorides and chloroformates employing fluorobis(phenylsulfonyl)methane. Synthesis of monofluoromethyl ketones via selective zinc-mediated reductive desulfonation

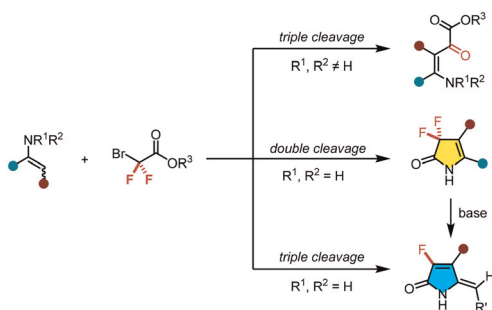
Alexander Knieb, Thomas Saal, Prabodh Rao,
Xanath Ispizua-Rodriguez and G. K. Surya Prakash*



4305

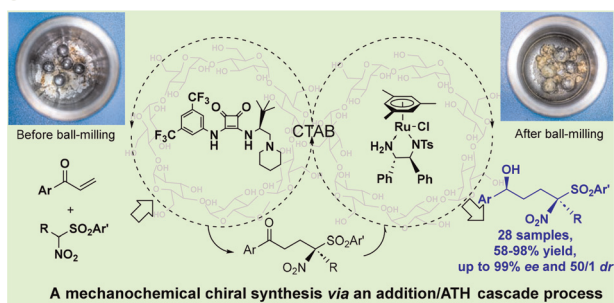
Photoinduced diversity-oriented synthesis of α -ketoester β -enamino esters, 3,3-difluoro-4-pyrrolin-2-ones, and 3-fluoro-3-pyrrolin-2-ones from bromodifluoroacetates and β -enamino esters

Dewei Feng, Renhua Zheng,* Zhifang Li, Xiao Geng*
and Lei Wang*



RESEARCH ARTICLES

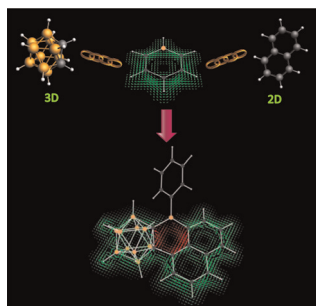
4311



A mechanochemical addition/reduction cascade process for the synthesis of dual stereocentered chiral δ -hydroxysulfones

Yongjin Zhang, Yanwen Gong, Donghua He, Tianqi Xu, Binhong Jiang, Kun Zhuang* and Guohua Liu*

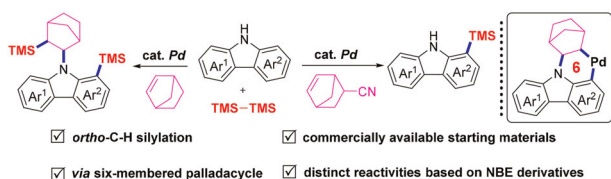
4321



Aromaticity switch of borabenzene: from aromatic when free or weakly aromatic when fused to 2D PAHs to non-aromatic when fused to 3D carboranes

Zahra Noori and Jordi Poater*

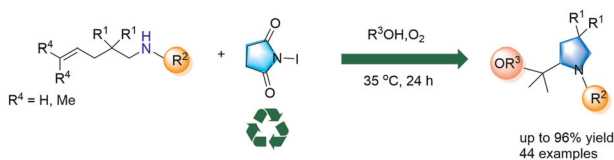
4332



Palladium(II)-catalyzed norbornene derivative-mediated *ortho*-C-H silylation: access to divergent silicon-containing carbazoles

Wenguang Li,* Jing Tao, Heyun Sheng, Man Cao, Ming Chen, Wenchao Gao, Xu Zhang, Wentao Li, Yongqi Yu* and Ting Li*

4338



A metal-free, green strategy for intramolecular aminoalkoxylation of unfunctionalized olefins via catalysis using recyclable NIS, with water as the sole byproduct

Hui Sun,* Liyuan Zhang, Xin Wu and Bin Cui*

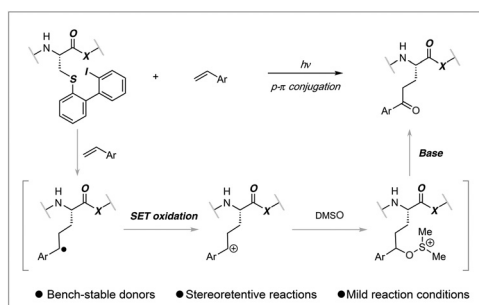


RESEARCH ARTICLES

4347

A photoredox catalyzed Kornblum oxidation reaction for unnatural amino acid synthesis

Li-Fan Deng, Mingxing Huang, Weichen Wang, Shiyang Xu, Xiang Pu,* Rong Tian* and Yingwei Wang*



REVIEW

4352

Azlactone rings: uniting tradition and innovation in synthesis

Marcelo H. R. Carvalho, Geovana F. Vargas, João P. R. S. Ribeiro, Pedro P. de Castro* and Giovanni W. Amarante*

