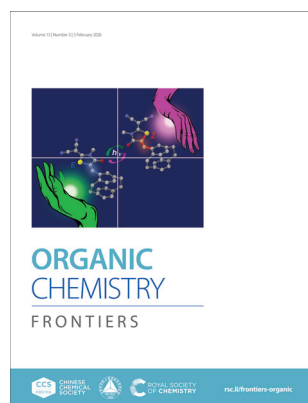


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ISSN 2052-4129 CODEN OCFRA8 13(3) 751-1094 (2026)



Cover

See Ronald K. Castellano *et al.*, pp. 764–776.

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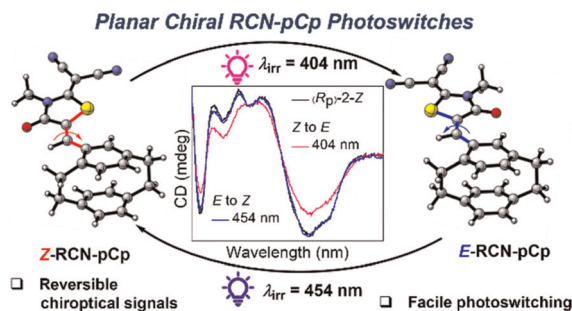
Cover features supplemental illustration by University of Florida Graphic Designer Laura Westmark.

RESEARCH ARTICLES

764

[2.2]Paracyclophane–dicyanorhodanine conjugates as planar chiral molecular photoswitches

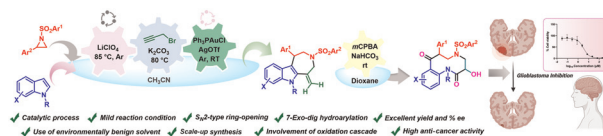
Parag Das, Cole D. Stearns, Ion Ghiviriga, Łukasz Dobrzycki and Ronald K. Castellano*



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Synthesis of azepino[4,5-*b*]indoles and benzo[*f*][1,5]diazecine-2,8(1*H*,3*H*)diones: promising anti-cancer activity toward cervical and brain cancer

Bharat Singh, Suraj Kashyap, Gaurav Goswami, Ashwini Kumar, Prabodh Ranjan, Preeti Chahar, Swapnanil Sen, Ranajit Mal, Ritika Gautam Singh* and Manas K. Ghorai*



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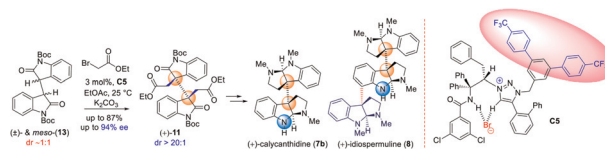
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788

Organo-cation-catalyzed site-selective sequential alkylation of dimeric 2-oxindoles: a concise catalytic approach to (+)-calycanthidine and (+)-idiospermuline

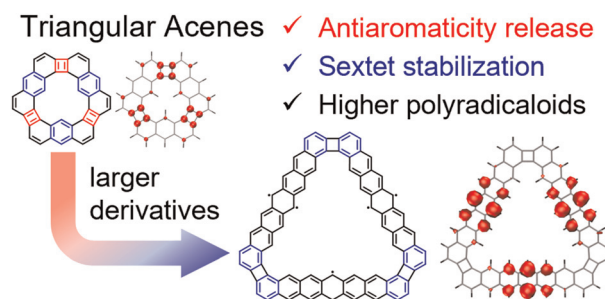
Pranay Shyamal, Debabrata Mondal, Arindam Khatua, Saina Shaheeda MK and Alakesh Bisai*



794

Electronic structure origins of radical character in triangular fused acenes: sextet stabilization vs. antiaromaticity release

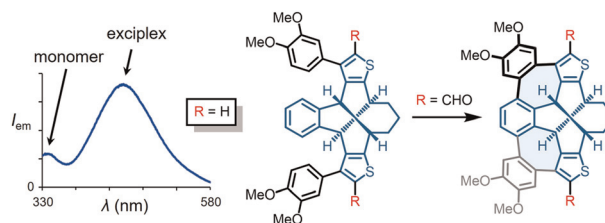
José Aarón Rodríguez-Jiménez, Jan Patrick Calupitan* and David Casanova*



803

Synthesis, twofold oxidative cyclization and dual emission of diaryl-substituted benzodithieno [5.5.5.6]fenestranes

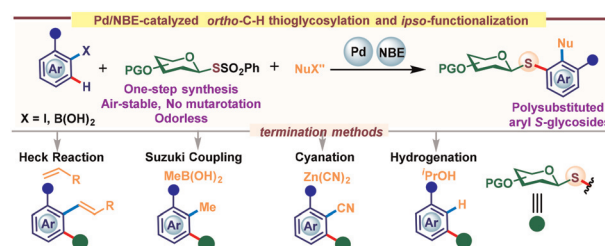
Man-Kit Lee, Chun-Fai Ng, Dietmar Kuck,* Wai-Shing Wong* and Hak-Fun Chow*



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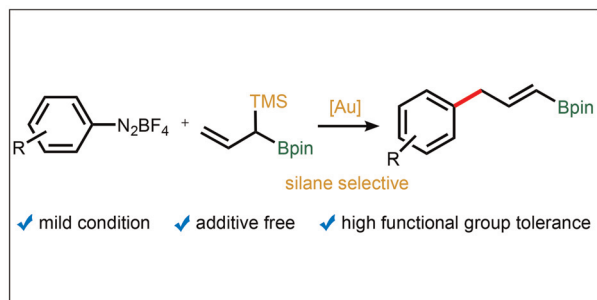
Glycosyl thiosulfonate-enabled *ortho*-thiolation via the Catellani strategy: a modular synthesis of polysubstituted aryl thioglycosides

Zanjila Azeem, Shalini, Neetu Malya, Ruchir Kant, Sathish Kumar Mudedla and Pintu Kumar Mandal*



RESEARCH ARTICLES

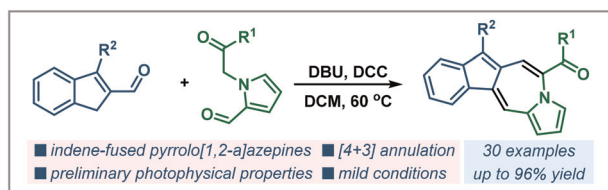
821



Gold-catalyzed Hiyama coupling of (1-silyl)allylboronates with diazonium salts

Shan Zhang, Jonas F. Wunsch, Frank Rominger, Matthias Rudolph, Yaowen Liu* and A. Stephen K. Hashmi*

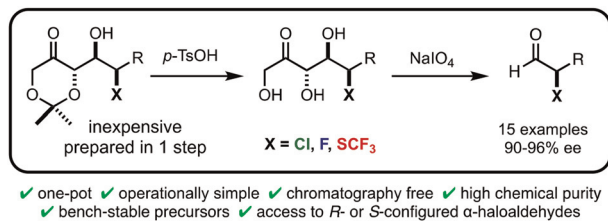
829



DBU-promoted [4 + 3] annulation of pyrrole-2-carbaldehyde derivatives with indene-2-carbaldehydes: synthesis of indene-fused pyrrolo[1,2-a]azepines

Li-Jia Chen, Yong-Yu He, Yu-Qing Wang, Lin Liu,* Jun Ying and Jin-Bao Peng*

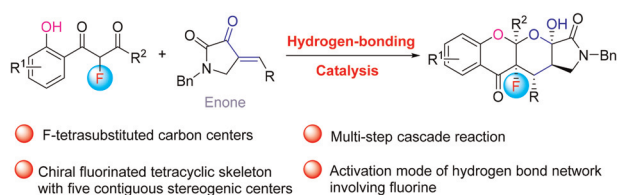
836



A convenient synthesis of enantioenriched α-haloaldehydes

Alan J. Brooke, Mathew Sutherland and Robert Britton*

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Enantioselective synthesis of O,O-acetal-fused tetracyclic scaffolds with fluorinated tetrasubstituted centers via fluorine-assisted asymmetric induction

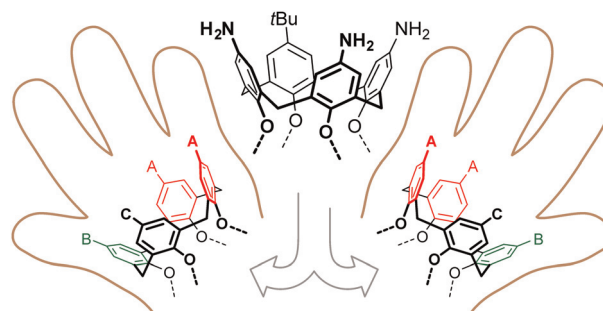
Yuzhen Chen, Jialiang Qin, Guohui Zeng,* Huicai Huang* and Yongbo Xue*



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Accessing inherently chiral multifunctional structures by desymmetrization of a wide-rim calix [4]arene triamine

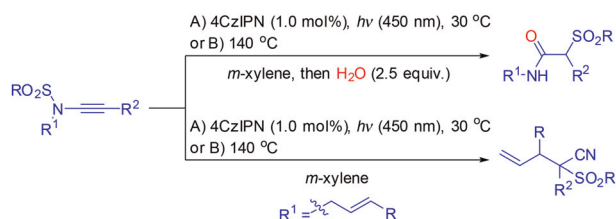
Ivan Alekseev, Ioann Shugaev, Alexander Gorbunov, Dmitry Cheshkov, Elena Tarasenko, Elena Kudryashova, Stanislav Bezzubov, Vladimir Kovalev and Ivan Vatsouro*



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Metal-free divergent radical reactions of *N*-sulfonyl ynamides: substrate-controlled synthesis of α -sulfonyl amides and α -sulfonyl nitriles

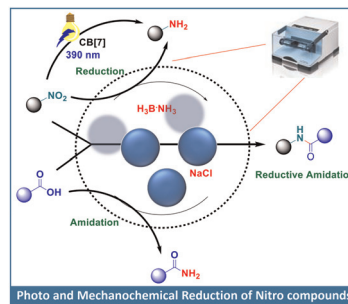
Xinsong Liu, Ruotong Chen, Yu Yan, Yu Li, Junbiao Chang* and Xiao-Na Wang*



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Photo and mechanochemically induced reduction of nitroarenes using ammonia borane

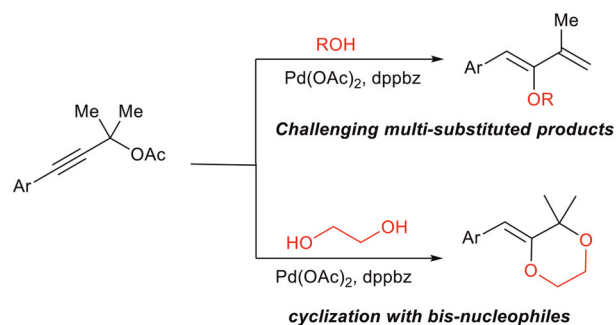
Satenik Mkrtchyan, Vishal B. Purohit, Oleksandr Shalimov, Yevhen Karpun, Ronak V. Prajapati, Vaibhav D. Prajapati, Björn Bielec, Gabriela Addová, Juraj Filo, Pengyue Jin, Cui Wang, Dmitry Katayev* and Viktor O. Iaroshenko*



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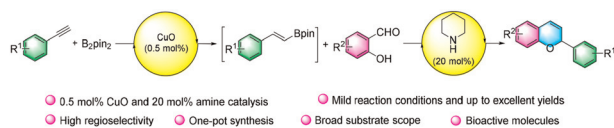
Palladium-catalyzed intermolecular 1,3-dienylation of propargyl esters with alcohols for constructing polysubstituted 1,3-dienes

Shuizhen Lin, Haohao Jiang, Yue Zhang, Ling Jin, Shuoshuo Zhang and Xiaolei Huang*



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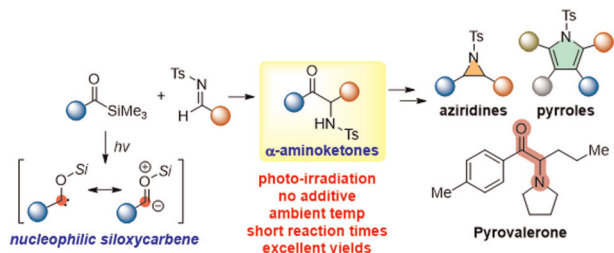
890



A copper-catalyzed cascade borylation/Petasis reaction for synthesis of regioselective 2H-chromenes under catalytic amine conditions

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

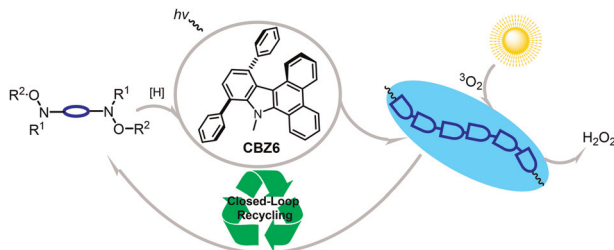
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Reversed-polarity access to α -aminoketones using *in situ* generated siloxycarbenes from acylsilanes under photo-irradiation

Jaewon Lee and Inji Shin*

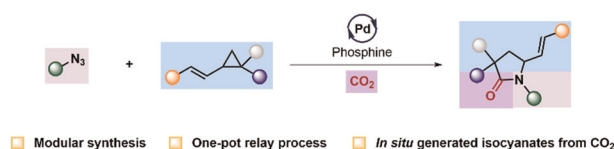
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Photocatalytic synthesis and closed-loop recycling of conjugated polyazines

Yi-Ping Wang, Zhen-Zhen Guo, Jian-Ping Qu and Yan-Biao Kang*

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One-pot relay of Staudinger-aza-Wittig and Pd-catalyzed [3 + 2] cycloaddition: modular pyrrolidinone synthesis via *in situ* generated isocyanates from CO₂

Hong Sun, Mengjiao Yang, Xing He and Duanyang Kong*

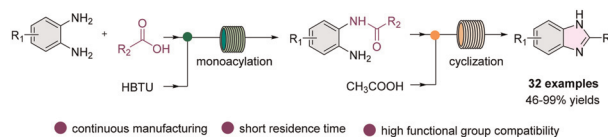


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Telescoped continuous flow synthesis of benzimidazoles from *o*-phenylenediamines and carboxylic acids

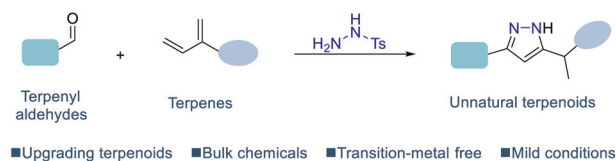
Qilin Xu, Zhihao Ma, Fucheng Zhu, Guosi Li, Yidong Zhong,* Dong Liu* and Yongjun Zang*



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Bridging terpenyl aldehydes and terpenes with hydrazine

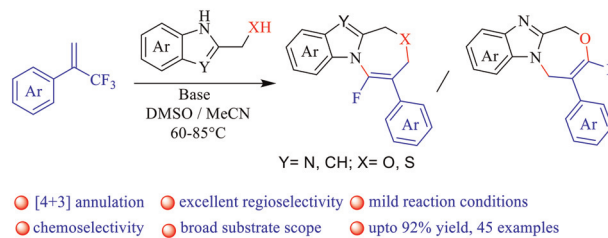
Li-Ming Zhang, Su-Yang Xu, Xue-Ting Li, Ting-Ting Song, Ding-Wei Ji, Yanhua Lu, Boshun Wan and Qing-An Chen*



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Selective defluorinative [4 + 3] annulation to access fluorinated oxazepines and thiazepines

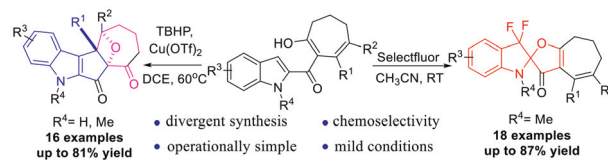
Firdous Farah, Akbar Sohail, Ping Jiang, Keyume Ablajan* and Shahid Ali Khan



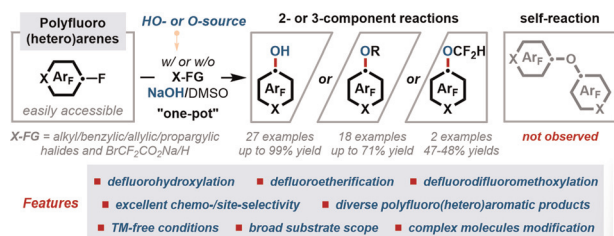
941

Divergent synthesis of spiro or fused indole derivatives tethered with seven-membered rings

Zongkang Wang, Lan Tu, Yawen Lan, Yan Wang, Peng He, Nana Fei, Yakun Jiang, Chengyu Wang* and Yanzhong Li*



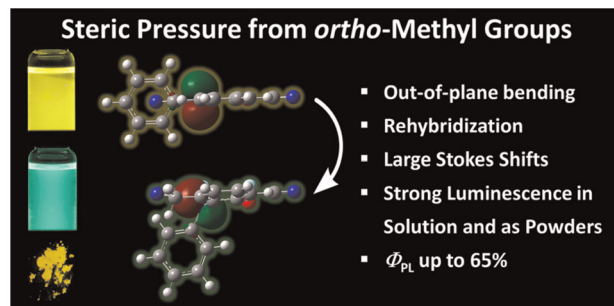
948



Selective defluorohydroxylation, defluoroetherification, and defluorodifluoromethoxylation of polyfluoro(hetero)arenes

Xiao-Xiao Sun, Li-Lu Xiao, Li-Ting Xiao, Hao Xu,* Zhi-Liang Shen,* Mengtao Ma, Xian-Xian Mao and Xue-Qiang Chu*

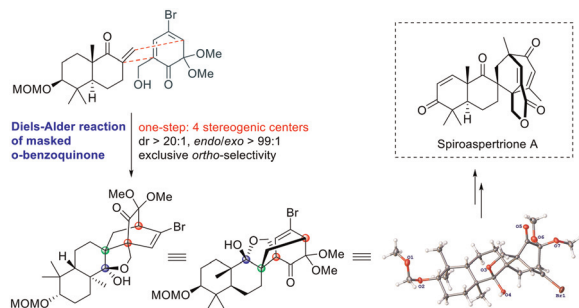
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Controlling structural and photophysical properties in sequentially methylated phenoxazines

Alexander Huber, Felix van der Vight, Viktoria Heising, Christoph Wölper, Oleg Prymak, Hatem M. A. Amin, Kenneth E. Maly and Jens Voskuhl*

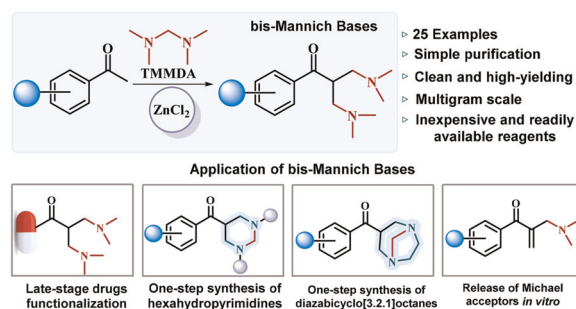
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Construction of the core skeleton for spiroaspertrione A by a Diels-Alder reaction of masked *o*-benzoquinone

Si-Yu Wang, Xue-Hua Huang, Yu-Han Xiao, Jia-Lei Yan* and Ai-Jun Ma*

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A straightforward approach to long forgotten acetophenone-derived bis-Mannich bases: synthesis, mechanistic studies, pharmacophore potential and unique trapping of *N*-nucleophiles

Ekaterina S. Kudriashova, Margarita A. Yarushina, Ilya I. Vorobyov, Ekaterina A. Fedotova, Elizaveta M. Pnachina, Yuri V. Skornyakov, Alexander V. Mitin, Vsevolod V. Kuzmichev, Ivan D. Grishin, Ivan V. Fedyanin, Alexey Yu. Fedorov and Vasilii F. Otvagin*

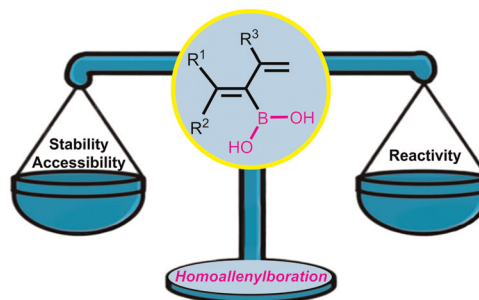


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Pd/Cu/TsOH-cocatalysed direct synthesis of 1,3-dienyl-2-boronic acid: a new reagent for homoallylboration

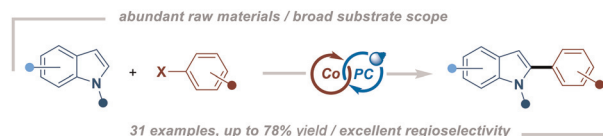
Xiang-Yu Wang, Dao-Jin Ruan, Takuma Sato, Kun Liu, Qin Zhong, Wei-Hua Ma,* Tienan Jin, Masahiro Terada and Jian Zhao*



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Direct C2-arylation of indoles enabled by photoinduced XAT and Co-mediated desaturation

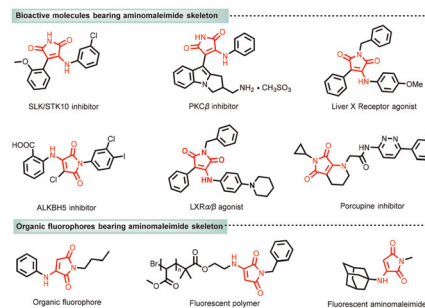
Ke-Yi Deng, Zhen-Zhen Xie, Pan Zhu, Xiao-Qing Chen, Kai Chen* and Hua Yang*



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Metal-, oxidant- and base-free direct C–H amination of maleimides enabled by versatile benzohydroxamic acids

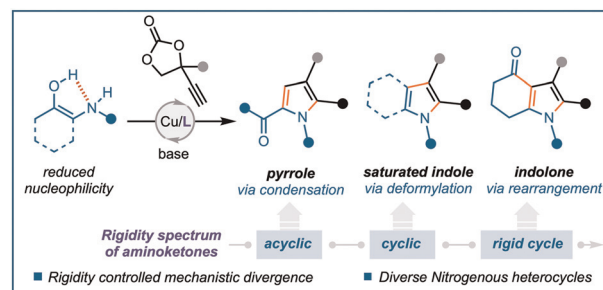
Chenglin Wu,* Jiawen Gu, Shijie Ni, Zhe Sheng, Liu Wang, Wei Xie,* Yixin Xu* and Xiaoming Xin*



1003

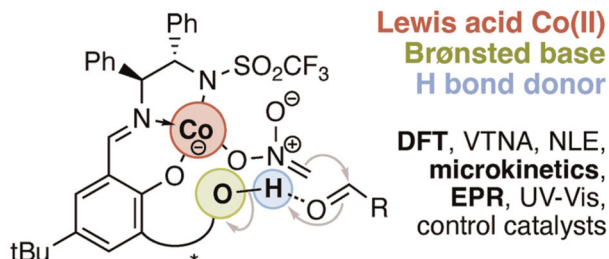
Conformational rigidity controlled copper catalyzed chemodivergent annulation

Pratap Kumar Mandal, Subhra Kanti Mahato, Neelam, Soumalya Panja, Parikshit Moitra and Amit Kumar Simlandy*



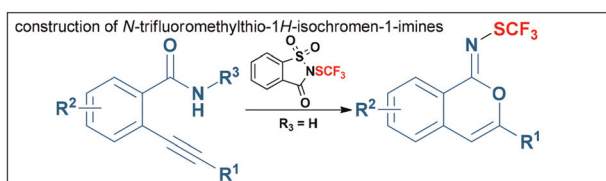
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Class-II-aldolase-like:**Class-II-aldolase-mimicking polyfunctional Lewis acid/azolium-aryloxide catalysts in direct enantioselective nitro-aldol additions**

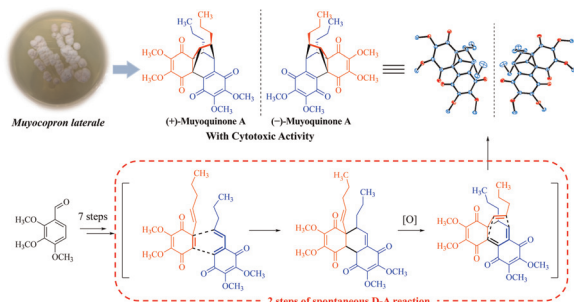
Khushbu Jangid, Lisa A. Schmoltzi, Alexander Allgaier, Radhika Kataria, Daniel M. Wanner, Justin Herrmann, Janis Gschwind, Silvio Münch, Joris van Slageren, Johannes Kästner and René Peters*

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**Synthesis of *N*-trifluoromethylthio-1*H*-isochromen-1-imines via *N*-trifluoromethylthiolation/iminolactonization of *o*-alkynyl aryl amides with *N*-trifluoromethylthiosaccharin**

Jianquan Hong,* Feng Zheng, Xiaoyu Wang, Pengyang Cao, Dejing Yin, Wenqi Li, Xiaoxu Liu, Qiang Wang, Jie Wang and Changge Zheng*

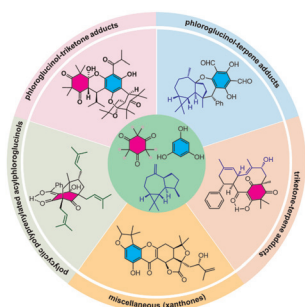
1035

**Discovery and synthesis of (+)/(-)-muyoquinone A, a pair of rare cyclopropane bridge-containing pentacyclic benzoquinone dimers with cytotoxic activity**

Hai-Yan Cao, Cheng Yi, Yu-Wei Niu, Ke-Liang Chen, Yang Liu, Fang-Fang Lai and Yun-Bao Liu*

REVIEWS

1042

**Recent advances in the total synthesis of polycyclic phloroglucinol natural products**

Na Lv, Chen-Chen Gu, Xin Zou, Long Min,* Min-Jing Cheng* and Chuang-Chuang Li*

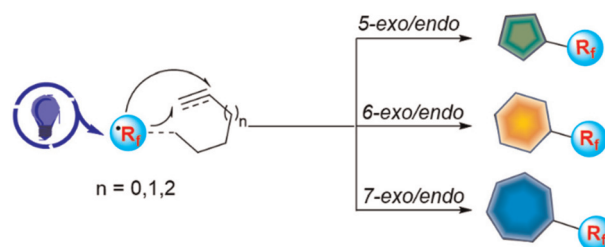


REVIEWS

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Photocatalytic fluoroalkyl radical-initiated construction of fluorinated heterocycles: mechanisms and applications

Dandan Li,* Long Chen, Zijia Xiong, Chunmiao Zhao, Xin Wang and Kai Sun*



CORRECTION

1091

Correction: Synthesis of quinoline derivatives by palladium-catalyzed isocyanide insertion/undirected C(sp²)-H functionalization/[4 + 1] cyclization reactions involving aryl isocyanide

Shan-Shan Liu, Yong-Jie Wu, Jiang-Nan Zheng, Zhi-Lin Ren,* Shao-Jie Jiang, Jun Wu, Ke-Ji Li, Ping He* and Long Wang*

