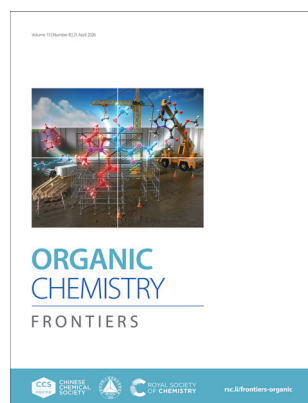


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Cover

See Motohiro Yasui *et al.*, pp. 2228–2234.

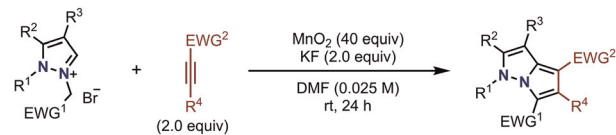
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RESEARCH ARTICLES

2228

Pyrzolum-ylide [3 + 2] cycloaddition/oxidative aromatization for the construction of 1*H*-pyrrolo[1,2-*b*]pyrazoles

Motohiro Yasui,* Tatsuya Tsumori, Masato Morita, Shigeyuki Yamada and Tsutomu Konno

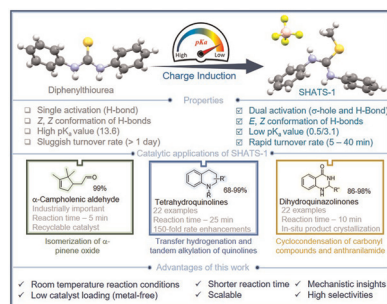


- ✓ Access to 1*H*-pyrrolo[1,2-*b*]pyrazole derivatives via a fast-oxidation strategy
- ✓ Broad substituent tolerance across multiple positions
- ✓ Elucidation of desired vs undesired reaction pathways by DFT calculations
- ✓ Confirmation of the reactivity and synthetic utility of the 5/5-fused scaffold

2235

Interactions beyond H-bonding: unveiling the role of unorthodox noncovalent interactions in charged thiourea and its catalytic efficiency

Prabhakar Murugan, Parul Rathour, Dipankar Das, Brijesh Patel, Srinu Tothadi, Bishwajit Ganguly and Saravanan Subramanian*



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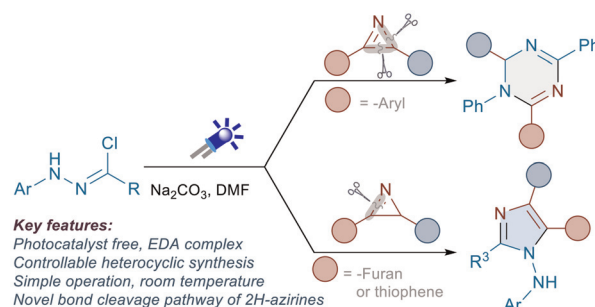


RESEARCH ARTICLES

2251

Tunable ring-opening of 2*H*-azirines via visible-light-driven novel selective C–C/C–N or C=N bond cleavage

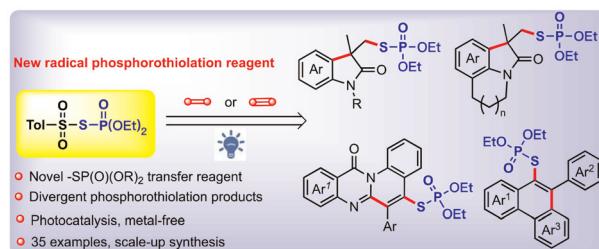
Bao-Gui Cai, Li-Hua Zhang, Yang Xie, Qiong Zhang* and Jun Xuan*



2261

Phosphorothiosulfonates: new radical phosphorothiolation reagents for photocatalytic cyclization of alkenes/alkynes

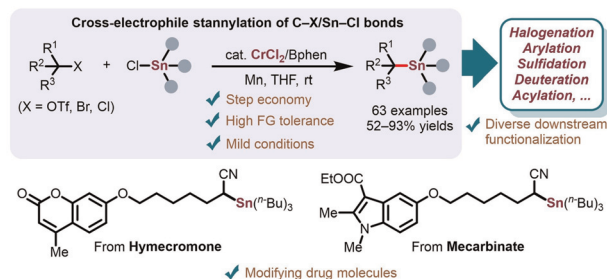
Xiang Liu, Mingyang Chen, Peng Liao, Yitai Fu, Qian Wang, Yan-Long Ma* and Hua Cao*



2268

Cross-electrophile stannylation of alkyl triflates and halides with chlorostannanes enabled by Cr(II)-phenanthroline catalysis

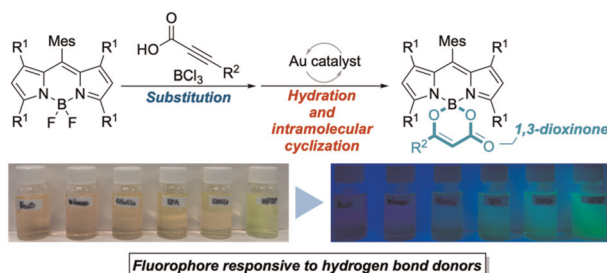
Jiwei Yi, Shuaiyong Zhao, Hongxiang Li, Xiaoyu Zhang, Zhaowen Dong* and Xiaoming Zeng*



2279

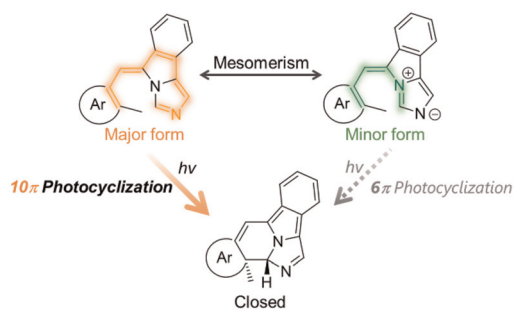
B-spiroBODIPYs as a fluorophore responsive to hydrogen bond donors

Aiko Kondo, Hideaki Takano* and Hiroshi Shinokubo*



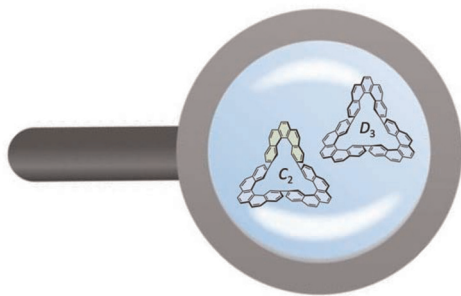
RESEARCH ARTICLES

2287

Aryl imidazoisoindoles for intrinsic 10π pericyclic photochromism with nonlinear acid responsiveness

Taichi Muto, Chigusa Goto, Shohei Katao and Tsuyoshi Kawai*

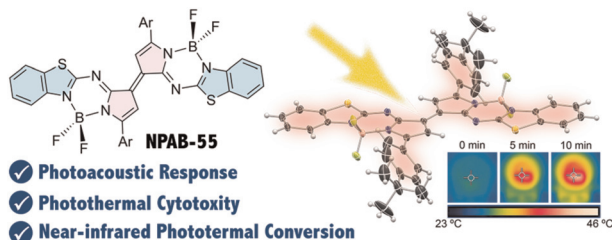
2298



Electronic properties of diastereomeric Möbius shaped cyclotris[5]helicenes

Albert Artigas, Nicolas Vanthuyne, Jean-Valère Naubron, Denis Hagebaum-Reignier, Yannick Carissan, Maxime Rémond, Ludovic Favreau, Harald Bock, Fabien Durolo* and Yoann Coquerel*

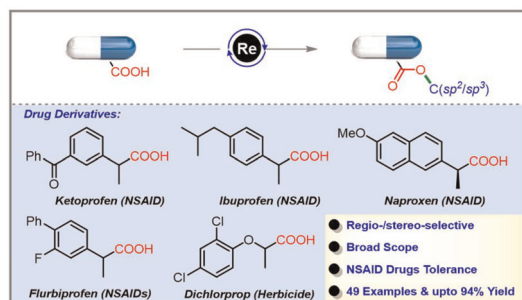
2309



N-Pechmann aza-BODIPYs: enhanced near-infrared photothermal conversion by the cross-conjugated structure

Yuma Tanaka, Yuya Taninokuchi, Taichi Sawamura, Saori Okamura, Shigeki Mori, Masatoshi Ishida,* Koji Miki, Kouichi Ohe, Takanori Iwasaki and Soji Shimizu*

2316



Rhenium-catalyzed stereoselective hydrocarboxylation of alkynes and olefins: late-stage NSAID drug's diversification

Suman Bhowmick, Mayank Singh, Khushboo Tiwari and Dharmendra Kumar Tiwari*

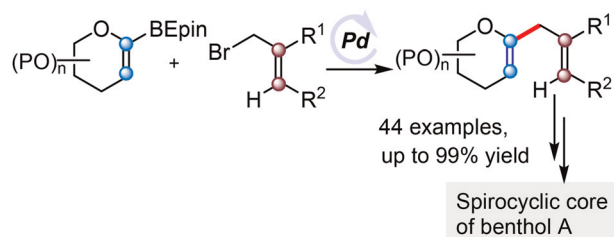


RESEARCH ARTICLES

2323

Palladium-catalyzed allylation of stable glycal boronates to access multi-substituted C1-glycals: *en route* to the construction of a spirocyclic core of benthol A

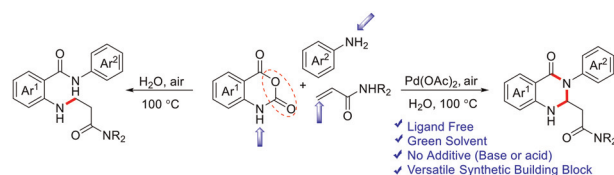
Hong-Rao Ma, Tao Li, Xiao-Qin Zhou, Xiu-Mei Li, Lin Peng* and Liang-Liang Wang*



2331

Pd(II)-catalyzed aerobic dual C–N bond formation: oxygen-dependent divergence between dihydroquinazolinone and aza-Michael pathways, an experimental and computational study

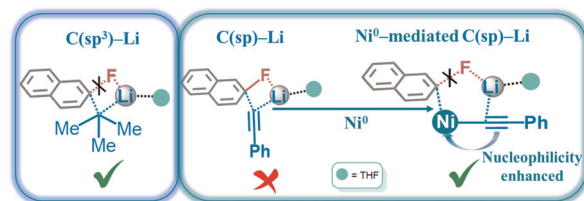
Narges Mohammadi, Farnaz Jafarpour,* Leyla Mohammadkhani and Alireza Ariaifard*



2341

Theoretical investigation on the mechanism of Ni⁰(acetylide carbanion)-ate complex-catalyzed C(sp²)–F bond activation and the origin of the counterion effect on reactivity

Xiao-Xia You, Ling-Qi Meng, Xu Liu, Li-Li Wang, Xin-Cheng Xu, Rong-Lin Zhong* and Zhong-Min Su*

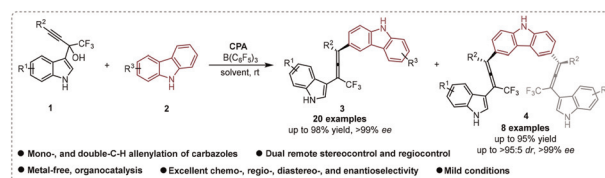


- ✓ Nucleophilicity is enhanced at Ni⁰ upon acetylide coordination
- ✓ Five-membered ring synergistic effects
- ✓ C(sp²)–F bond activation via an inner-sphere Ni⁰-mediated S_NAr

2352

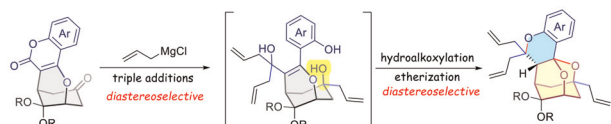
Asymmetric C3-allylation of carbazoles with α-indolyl propargylic alcohols

Xiao-Yi Deng, Yun-Zhe Li, Zhong Xie, Wen-Run Zhu,* Yi Liu, Gui Lu* and Jiang Weng*



RESEARCH ARTICLES

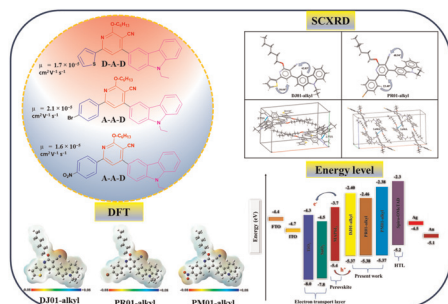
2360



Diastereoselective synthesis of dioxadamantane skeletons from coumarin-fused bridged ketones via a triple Grignard addition and hydroalkoxylation sequence

Haoran Yang, Jiawei Liu, Changmeng Yang, Dunru Zhu and Ruwei Shen*

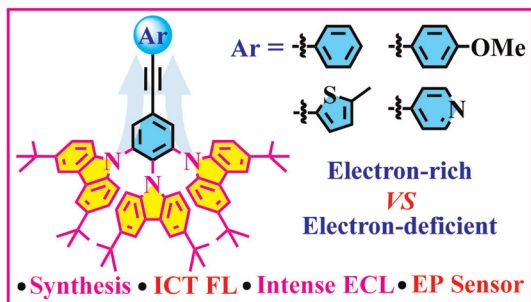
2367



Synergistic experimental and theoretical investigation of carbazole–cyanopyridine-based hole-transporting materials

Rachel Chetri, Vyngintas Jankauskas, Gediminas Kreiza, Kasparas Rakstys, Vytautas Getautis, Rahim Ghadari, Arijit Saha and Ahipa Tantri Nagaraja*

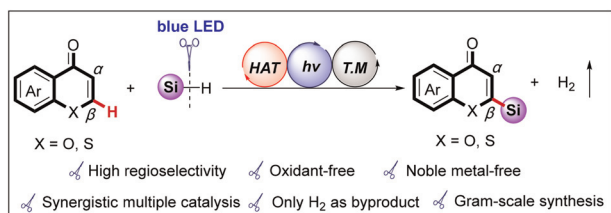
2382



Tricarbazole-based donor–acceptor architectures with diverse acceptors: synthesis, properties and applications

Huabi Xie, Yu Zuo, Chengye Yuan, Peng Xu, Ningwen Sun, Hongxing Jia, Jinjin Ding, Qiang Huang and Jinling Zhang*

2388



Visible light-induced regioselective/dehydrogenative C–H silylation of (thio)chromones via a tricatalytic process

Shou-Cai Wang, Zi-Ren Chen, Fei Xue, Yong-Hong Zhang, Bin Wang, Shao-Feng Wu, Yu Xia, Weiwei Jin, Fanghua Ji* and Chenjiang Liu*

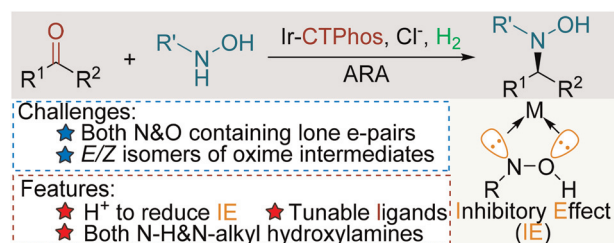


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Tunable CTPhos and chloride enabled direct asymmetric reductive amination for the synthesis of chiral hydroxylamines

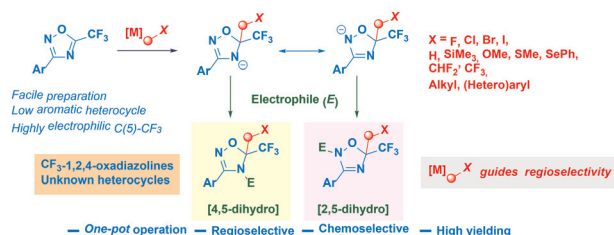
Qishan Liu, Wenji Wang, Bijing Liu, Haizhou Huang and Mingxin Chang*



2401

One-pot dearomatizative telescoped addition of C-nucleophiles to fluorinated 1,2,4-oxadiazoles followed by regioselective N-functionalization

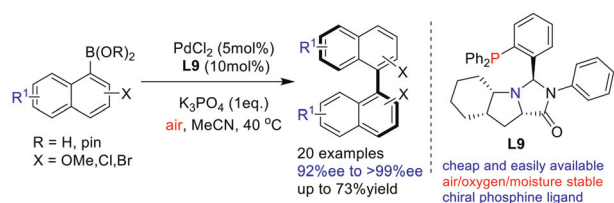
Davide Castiglione, Sara Amata, Federica Lauria, Andrea Maranzana, Salvatore Baldino, Alexander Prado-Roller, Laura Castoldi,* Antonio Palumbo Piccionello,* Vittorio Pace* and Eisuke I. Comas Iwasita



2410

An air-stable chiral P,N-ligand/PdCl₂ partner enables a highly enantioselective oxidative homocoupling of naphthylboronic acids/boronates only in an oxygen atmosphere

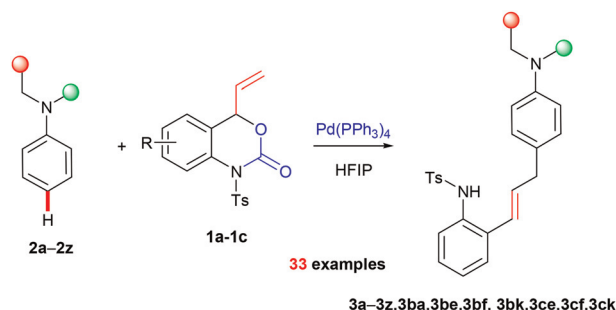
Guo Cheng, Jing-Liang Yu, Qian-Mao Zhang, Zhen-Yu Yang, Fang Tian and Li-Xin Wang*



2417

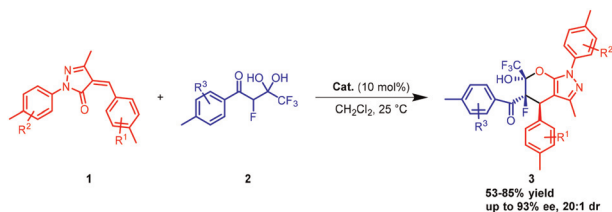
Pd(PPh₃)₄-catalyzed regioselective C–H *para*-allylation of *N,N*-dialkylanilines using vinyl benzoxazinanes

Lu Pei, Xiao-Lin Liu, Ding-Jun Zhang,* Hui-Hong Tian, Ling-Dan Zhu and Bang-Guo Wei*



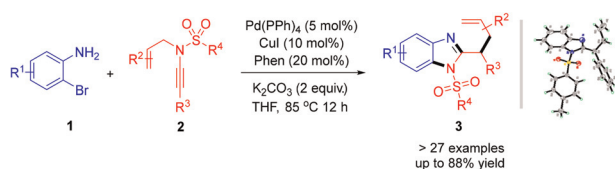
RESEARCH ARTICLES

2424

**Organocatalytic asymmetric synthesis of fluorinated pyranopyrazoles**

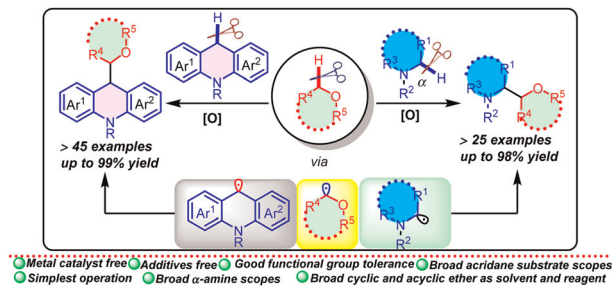
Jianfeng Mu, Aining Dong, Menghan Yang, Hongyu Zhang, Guoshun Zhang,* Xiaochen Wang,* Bei Wei* and Shurong Ban*

2430

**Palladium/copper bimetallic system-catalyzed cascade cyclization of *N*-allyl ynamides and *o*-haloanilines: access to multifunctional benzimidazoles**

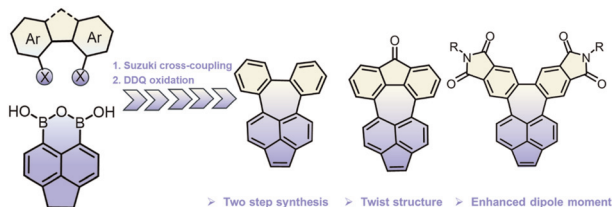
Yi-Yun Zhang, Xu-Heng Yang,* Ai-Ming Wen, Fang Wang, Jian Huang, Jianfang Wang* and Cheng-an Tao*

2437

 **α -Functionalization of ethers with acridanes and amines *via* metal-free direct C(sp³)-H radical-radical cross-dehydrogenative coupling**

Sudip Karmakar, Sumit Das, Koushik Naskar, Intiaj Mondal, Moumita Chowdhury, Ronaldo Nongmaithem and Indubhusan Deb*

2444

**A modular approach toward 5,6,7,8-functionalized acepleiadiene derivatives**

Shengchen Wei, Yingjie Peng, Dan Shi, Xiangzhao Zhu, Songhua Chen, Lili Xie* and Yuanming Li*

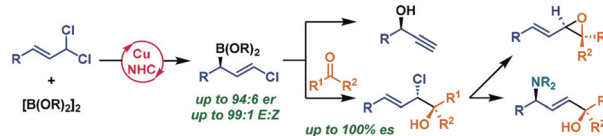


RESEARCH ARTICLES

2450

Enantioselective synthesis of allylic boronates bearing a stereodefined (*E*)-alkenyl chloride by Cu-catalyzed borylation of allylic *gem*-dichlorides

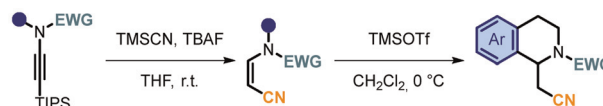
Andrea Chaves-Pouso, Andrés M. Álvarez-Constantino, Patricia Gómez-Roibás and Martín Fañanás-Mastral*



2459

 β - and *Z*-selective metal-free cyanation of ynamides: a direct approach to piperidines fused to arenes

Dorian Schutz,* Wenwen Yang and Laurence Miesch*

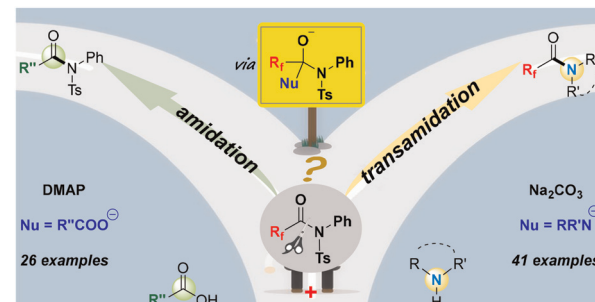


- One-pot process
Deprotection & Hydrocyanation
- Access to diverse arene-fused piperidine scaffolds
- Unusual β - and *Z*-selectivity

2466

Divergent transformations of *N*-phenyl-*N*-tosylfluoroacetamides to amides and imides (*N*-tosylamides)

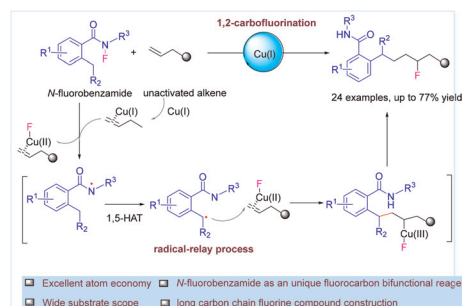
Nan Wang, Xia Chen,* Chun-Yan Liu, Zhi-Ying Feng, Ming Bao and Xiao-Yu Zhou*



2473

Cu(I)-catalyzed 1,2-carbofluorination of unactivated alkenes enabled by *N*-fluorobenzamides via free radical relay

Hong Ji, Haifeng Qiao, Boyi Wang, Tianyu Lu, Weixing Chang, Lingyan Liu* and Jing Li*

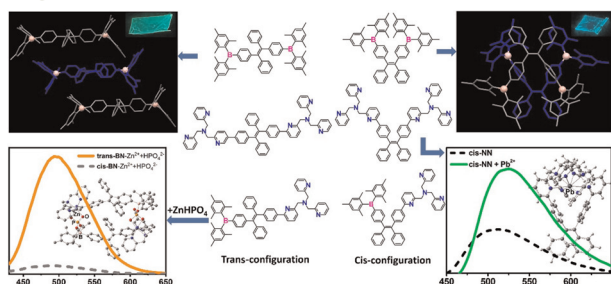


- Excellent atom economy
- N*-fluorobenzamide as a unique fluorocarbon bifunctional reagent
- Wide substrate scope
- long carbon chain fluorine compound construction



RESEARCH ARTICLES

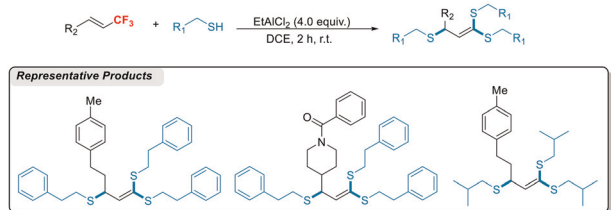
2479



Engineering tetraphenylethene-based *Z* and *E* stereoisomers: structural analysis and sensing applications

Han-Jiang Yang, Yatuan Ma, Xinpei Zhong, Xin Yang, You Xu, Xiaoxue Zhang, Zhixin Xiang, Xiujuan Huang, Wenji Wang, Jinyi Wang* and Mao-Sen Yuan*

2487

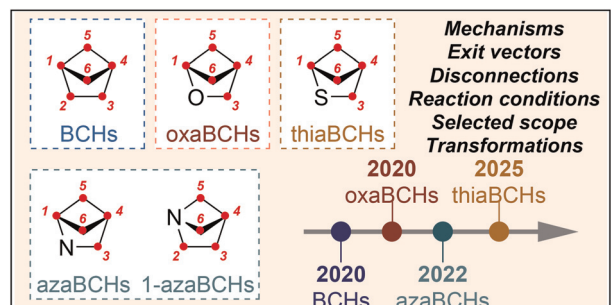


EtAlCl₂-promoted defluorinative thiolation of α -trifluoromethyl alkenes

Xin Guo, Guoliang Pu, Long Xiao, Jiarui Liang, Hang Zhang, Yu Chen, Yang Huang,* Qiuli Yao* and Chun-Yang He*

REVIEWS

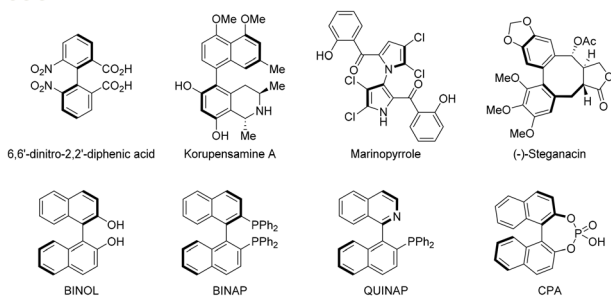
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Polysubstituted bicyclo-[2.1.1]-hexanes as benzene isosteres for medicinal chemistry

Eugenio Roà and Quentin Lefebvre*

2599



Enantioselective synthesis of atropisomeric biaryls and heterobiaryls *via* transition metal-catalyzed cyclization

Shibo Lin,* Ya Zou, Yiwen Chu, Junfeng Deng and Lifeng Zhao

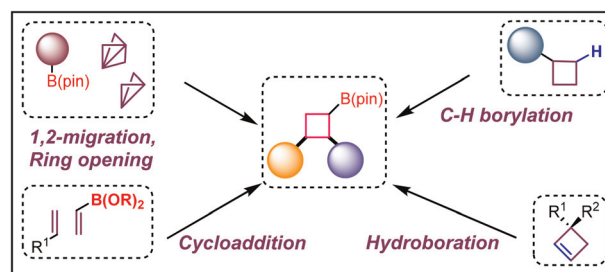


REVIEWS

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Advances in the construction of boryl cyclobutanes

Kanak Kanti Das* and Sutapa Dey



CORRECTIONS

2657

Correction: Cu(I)-catalyzed 1,2-carbofluorination of unactivated alkenes enabled by *N*-fluorobenzamides via free radical relay

Hong Ji, Haifeng Qiao, Boyi Wang, Tianyu Lu, Weixing Chang, Lingyan Liu* and Jing Li*

2660

Correction: Interactions beyond H-bonding: unveiling the role of unorthodox noncovalent interactions in charged thiourea and its catalytic efficiency

Prabhakar Murugan, Parul Rathour, Dipankar Das, Brijesh Patel, Srinu Tothadi, Bishwajit Ganguly and Saravanan Subramanian*

