

IN THIS ISSUE

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Cover

See William D. G. Brittain,
Benjamin R. Buckley,
John S. Fossey *et al.*,
pp. 3460–3466.

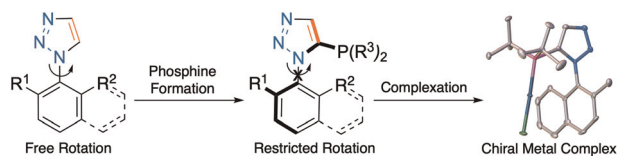
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John S. Fossey from
Org. Chem. Front., 2023,
10, 3460.

RESEARCH ARTICLES

3460

Synthesis of atropisomeric phosphino-triazoles and their corresponding gold(i) complexes

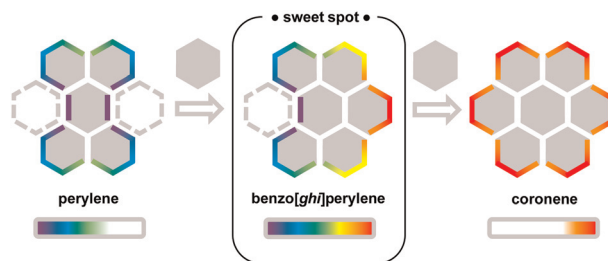
Yiming Zhao, Fernanda Meloni, Louise Male,
Cécile S. Le Duff, William D. G. Brittain,*
Benjamin R. Buckley* and John S. Fossey*



3467

Rational assembly of benzenoid rings in benzo[ghi]perylene yields a diversity of edge features with site-selective reactivity

David T. Hogan, Wen Zhou, Benjamin S. Gelfand and
Todd C. Sutherland*



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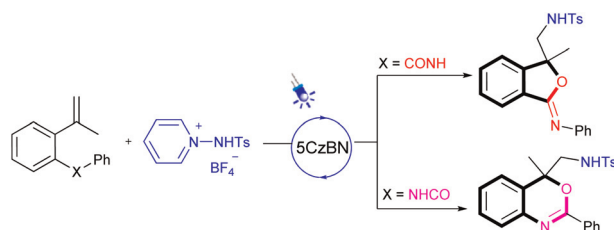


RESEARCH ARTICLES

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Photo-induced cyclization of olefinic amides towards sulfonamidylated iminoisobenzofurans and benzoxazines

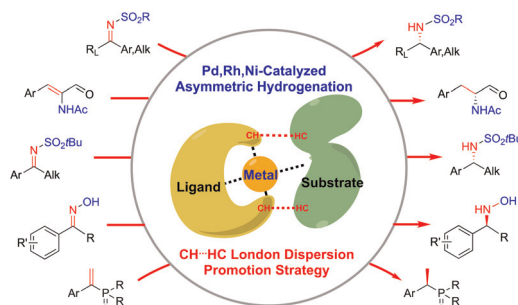
Changduo Pan, Shipeng Luo, Yechun Wu, Jin-Tao Yu* and Chengjian Zhu*



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The role of attractive dispersion interaction in promoting the catalytic activity of asymmetric hydrogenation

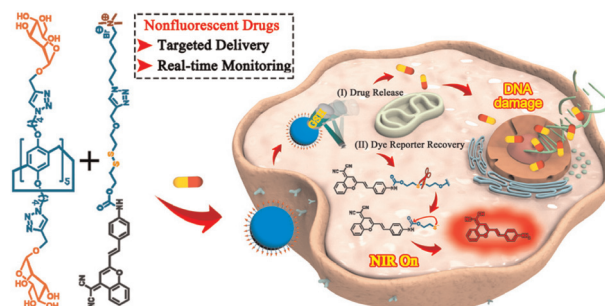
Limin Yang,* Bo Li and K. N. Houk*



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A mannose-functionalized pillar[5]arene-based supramolecular fluorescent probe for real-time monitoring of gemcitabine delivery to cancer cells

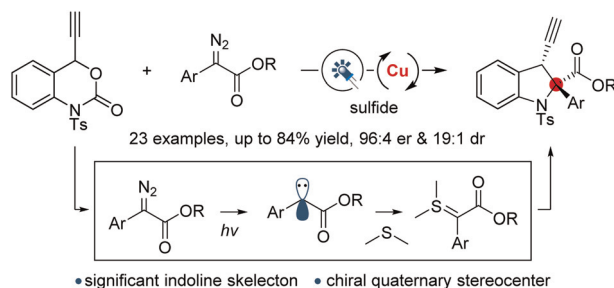
Shuang Chao, Pei Huang, Ziyang Shen, Yuxin Pei, Yinghua Lv,* Yuchao Lu* and Zhichao Pei*



3498

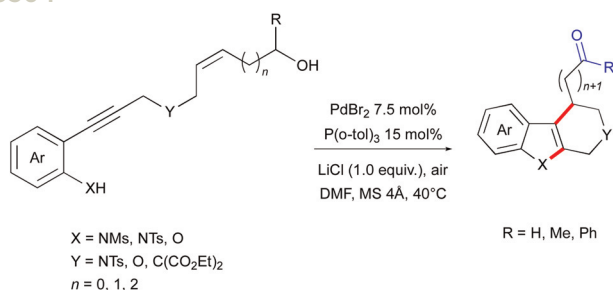
Photoinduced carbene transfer for copper-catalyzed asymmetric [4 + 1] cycloadditions: an entry to chiral indolines bearing quaternary stereocenters

Bao-Le Qu, Bin Shi, Lin He, Jun-Wei Shi, Wen-Jing Xiao and Liang-Qiu Lu*



RESEARCH ARTICLES

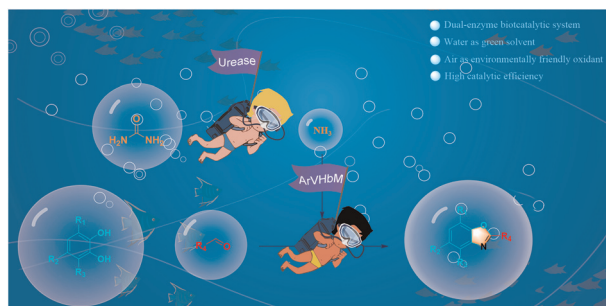
3504



Palladium-catalyzed cascade cyclization/ intramolecular redox-relay Heck arylation of alkenols: access to tetrahydro-β-carbolines from 2-(hydroxyalkenynyl)sulfonanilides

Tao Liu, Tuanli Yao,* Ruihua Guo* and Xiangyang Qin*

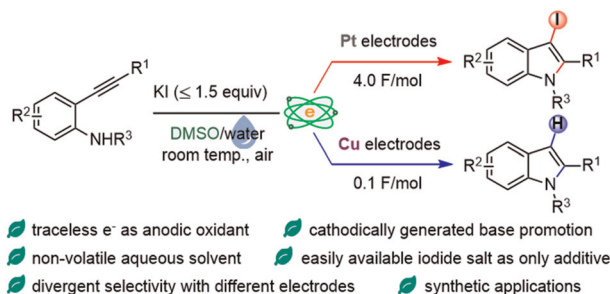
3509



Novel dual-enzyme system for synthesis of 2-alkyl and 2-arylbenzoxazoles via aerobic oxidation

Fengxi Li, Yaning Xu, Yuelin Xu, Jinglin Ma, Hanqing Xie, Hengzheng Yang, Weiwei Han, Chunyu Wang, Zhengqiang Li* and Lei Wang*

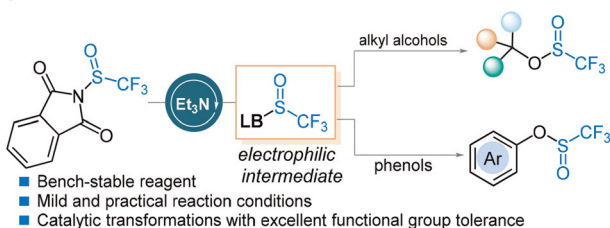
3515



Divergent electro-synthesis of 3-iodoindoles and indoles from 2-ethynylanilines under ambient and aqueous conditions

Binbin Huang,* Guiling Chen, Haoxiang Zhang, Xinye Tang, Jiawei Yuan, Caicai Lu and Junlei Wang*

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Lewis base-catalyzed trifluoromethylsulfonylation of alcohols and phenols: modular synthesis of trifluoromethanesulfonate esters

Wen Liu, Shuya Xing, Shao-Fei Ni, Cheng Ma, Qiujin Fan, Zhiyong Ye, Yanchuang Zhao, Ting Ouyang, Ying Bai* and Xinxin Shao

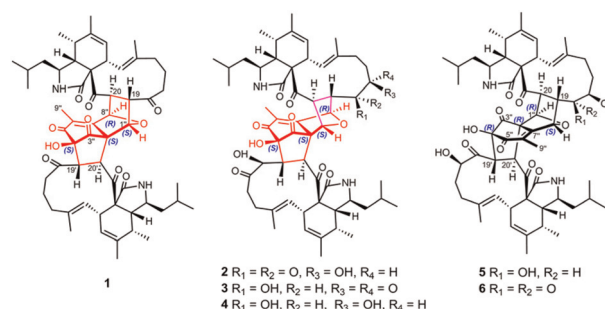


RESEARCH ARTICLES

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Amichalazines F–J: cytochalasan heterotrimers with mirror-imaged core structures from *Aspergillus micronesiensis*

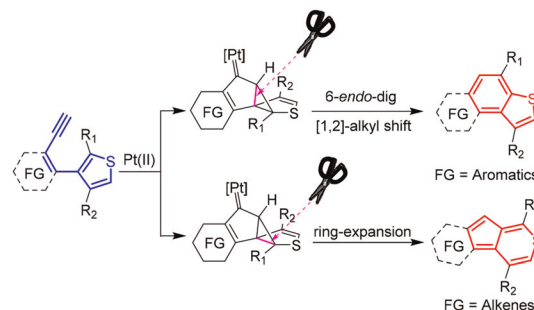
Zhaodi Wu, Xiaotian Zhang, Qin Li, Qingyi Tong, Jing Yang, Chunmei Chen,* Hucheng Zhu* and Yonghui Zhang*



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Selective 6-*endo-dig* and ring-expansion cycloisomerizations of *ortho*-disubstituted thiophenes bearing 1-en-3-yne moieties

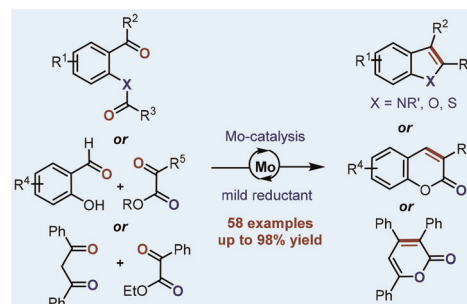
Yingjian Ren, Zhanglang Zhou, Weinan Chen, Si Liu, Min Wang and Gang Zhou*



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Molybdenum-catalyzed carbonyl–carbonyl olefination reaction for heterocycle syntheses

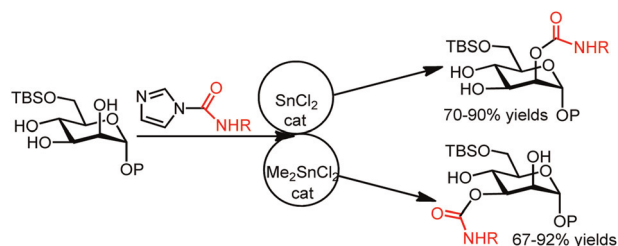
Yuan-Qing Dong, Xiao-Nan Shi, Li-Ya Cao, Jin Bai and Chun-Xiang Zhuo*



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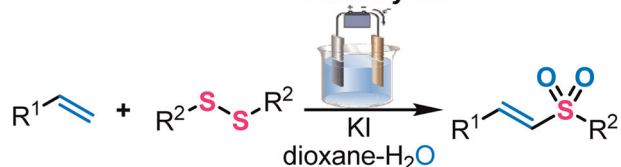
Site-selective carbamoylation of carbohydrates catalyzed by $\text{SnCl}_2/\text{Me}_2\text{SnCl}_2$ leading to complementary selectivity

Yang-Fan Guo, Tao Luo and Hai Dong*



RESEARCH ARTICLES

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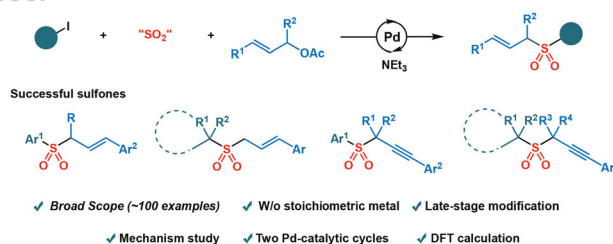
Electrolysis

- **electrochemically induced disulfides activation**
- **multistep sulfonation in one laboratory step**
- **easily reproducible**

Disulfides as versatile starting reagents: effective sulfonylation of alkenes with disulfides under electrochemical conditions

Olga M. Mulina, Mikhail M. Doronin, Liang-Nian He and Alexander O. Terent'ev*

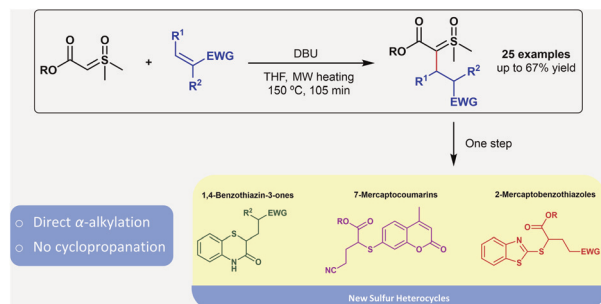
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A palladium-catalyzed cross-electrophile coupling reaction involving sulfur dioxide for the direct synthesis of diversely functionalized sulfones

Baojian Xiong, Jinyu Zhang, Ting Wang, Xuemei Zhang, Gui-juan Cheng* and Zhong Lian*

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The α -alkylation of carbonyl sulfoxonium ylides: studies and applications in the synthesis of new sulfur heterocycles

Matheus P. de Jesus, Radell Echemendía and Antonio C. B. Burtoloso*

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Organophotoredochemical silylation cyclization for the synthesis of silylated 3-CF₃-2-oxindoles

Qinhui Wan, Chen-Yin Huang, Zhong-Wei Hou,* Huajiang Jiang and Lei Wang*

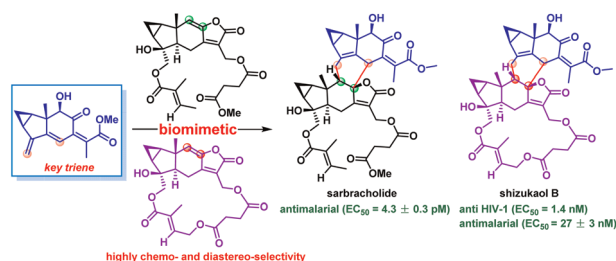


RESEARCH ARTICLES

3591

Asymmetric total syntheses of sarbracholide and shizukaol B

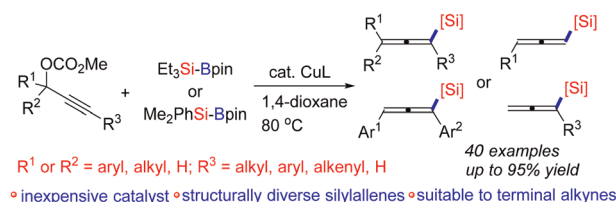
Ganxing Huang, Zhengsong Huang, Xianjian Ma, Zhihu Feng, Fengxia Yuan, Song Qin, Shaomin Fu* and Bo Liu*



3598

Copper-catalyzed silylation of propargyl carbonates: a general entry to allenylsilanes

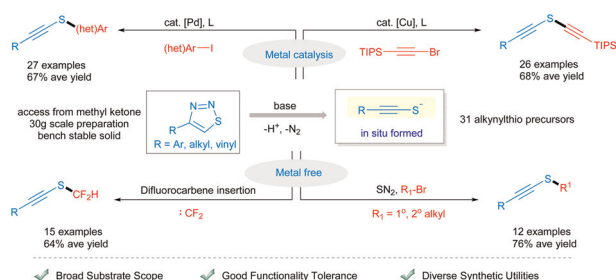
He Zhang, Linjuan Jiang, Mei Yang and Yuanhong Liu*



3603

Alkyne/thio umpolung tactic replacement: synthesis of alkynyl sulfides via capturing the *in situ* formed alkynylthiolate anion

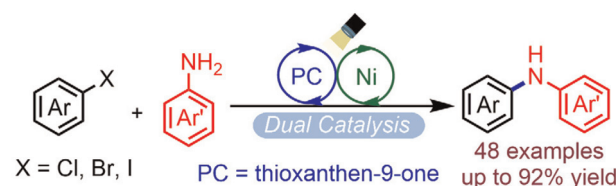
Donghui Xing, Mengxia Feng, Yuzhen Zheng, Bin Huang, Huanfeng Jiang and Liangbin Huang*



3612

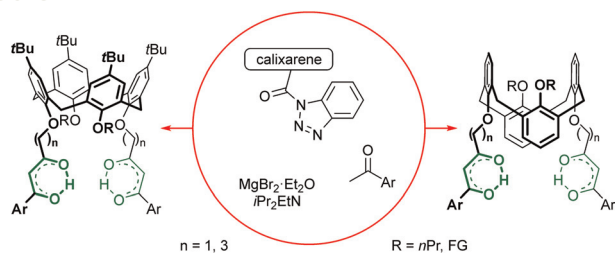
Visible-light-initiated nickel-catalyzed amination of aryl halides using thioxanthen-9-one as a photocatalyst

Da-Liang Zhu, Jie Li, David James Young, Yanqing Wang* and Hong-Xi Li*



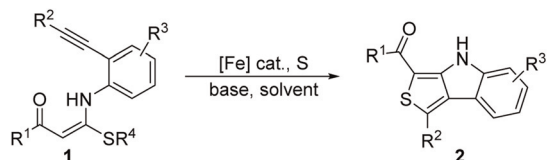
RESEARCH ARTICLES

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**Enriching calixarene functionality with 1,3-diketone groups**

Maria Sakovich, Daria Sokolova, Ivan Alekseev, Ivan Lentin, Alexander Gorbunov, Maria Malakhova, Ivan Ershov, Rustem Zairov, Ilia Korniltsev, Sergey Podyachev, Stanislav Bezzubov, Vladimir Kovalev and Ivan Vatsouro*

3637

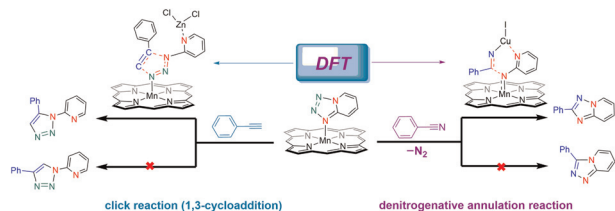


- 1,2-S migration ■ Csp³-S bond cleavage and Csp²-S bond formation
- a indole ring and a fused thiophene ring formation in one step
- good functional group tolerance and broad substrate scope

Fe/S cluster catalyzed cascade cyclization of *N,S*-1,6-enynes for the synthesis of thieno[3,4-*b*]indoles

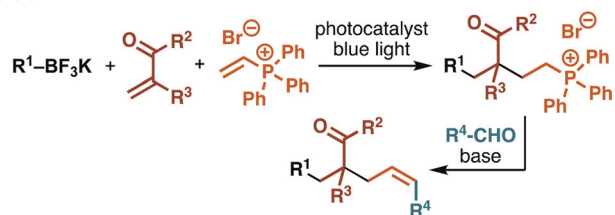
Zhuqing Liu, Shaobin Sun and Jiang Lou*

3642

**Mechanisms and origin of regioselectivity for manganese-catalyzed denitrogenative annulation and click reactions**

Guanghui Song, Wei Rong, Yongyin Liu and Juan Li*

3654



- Radical addition to two electron-deficient alkenes in a specific order
- Z-Selective synthesis of γ,δ-unsaturated ketones and esters

Sequence-selective three-component reactions of alkyltrifluoroborates with α,β-unsaturated carbonyl compounds and vinylphosphonium salts

Masaki Yoshida, Masaya Sawamura* and Yusuke Masuda*

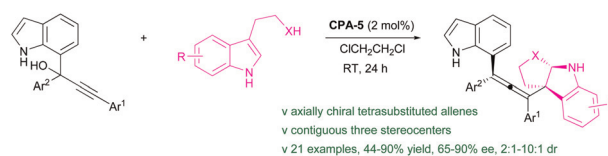


RESEARCH ARTICLES

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Organocatalytic enantioselective reaction of tertiary α -(7-indolyl)methanols with tryptamines

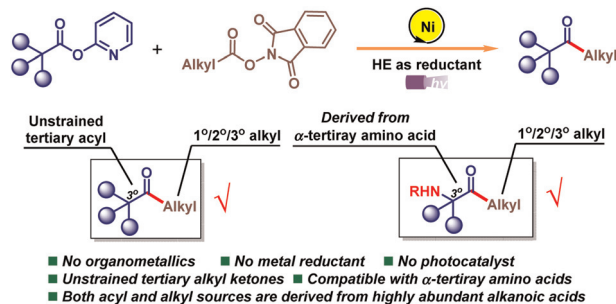
Zhibin Yue, Boming Shen, Jie Cao, Xuling Chen, Fang Fang, Pengfei Li,* Peiyuan Yu* and Wenjun Li*



3669

Photoinduced nickel-catalyzed reductive acyl cross-coupling: facile access to all carbon quaternary aliphatic ketones

Yukun Chen, Xiaoxiang Xi and Weiming Yuan*

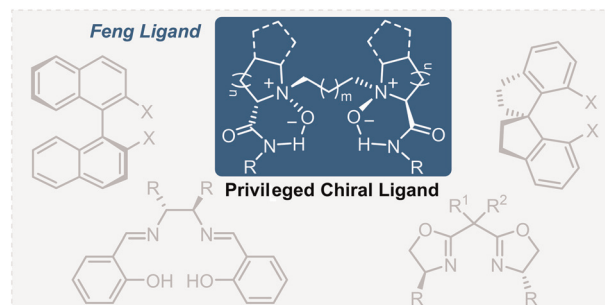


HIGHLIGHT

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Feng chiral N,N' -dioxide ligands: uniqueness and impacts

Dian-Feng Chen and Liu-Zhu Gong*



REVIEW

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Recent advances in the chemistry of α -oxylboronate reagents

Nanquan Jiang, Du Chen and Chao Liu*

