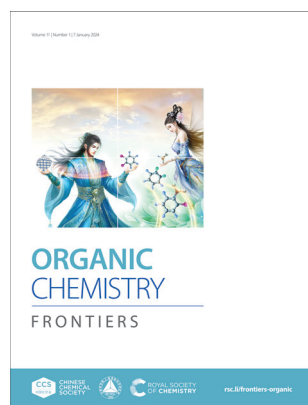


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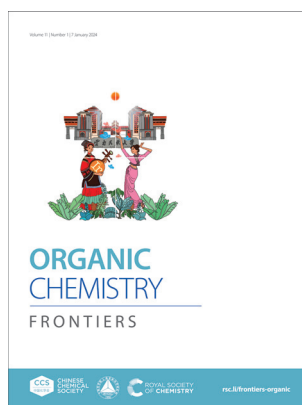
ISSN 2052-4129 CODEN OCFRA8 11(1) 1-256 (2024)



Cover

See Shihui Liu, Yanwei Hu, Shilei Zhang *et al.*, pp. 12–20.

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Inside cover

See Jingchao Chen and Baomin Fan *et al.*, pp. 21–26.

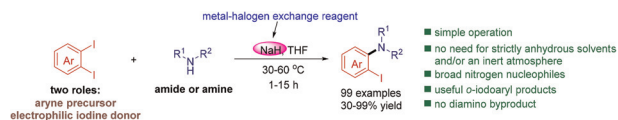
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A simple method for *N*-arylation of secondary amides/amines through a NaH-initiated aryne generation strategy

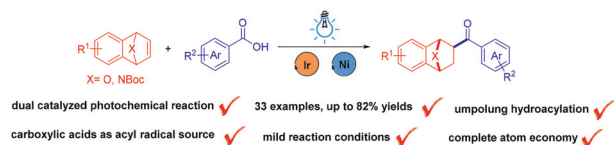
Yuanrui Jiang, Wenjing Zhu, Jiawen Huang, Fan Luo, Xiaobei Chen, Chunhui Fang, Xin Chen, Shihui Liu,* Yanwei Hu* and Shilei Zhang*



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Iridium/nickel dual catalyzed hydroacylation of hetero-bicyclic alkenes under visible-light irradiation

Li Meng, Chunhui Yang, Jun Dong, Wantiu Wen, Jingchao Chen* and Baomin Fan*



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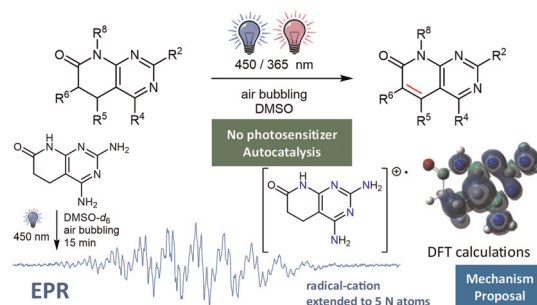
Fundamental questions
Elemental answers

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Autocatalytic photoinduced oxidative dehydrogenation of pyrido[2,3-*d*]pyrimidin-7(8*H*)-ones: synthesis of C5–C6 unsaturated systems with concomitant formation of a long-lived radical

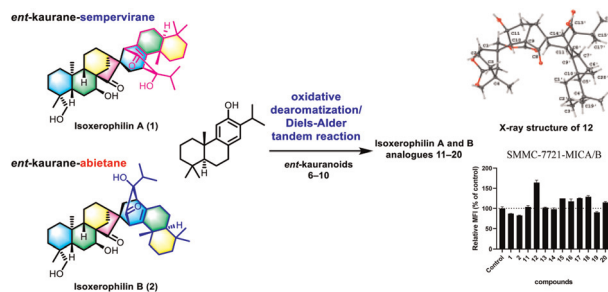
Claudi de Rocafiguera, Vega Lloveras, José Vidal-Gancedo, Jordi Teixidó, Roger Estrada-Tejedor, José I. Borrell and Raimon Puig de la Bellacasa*



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Isoxerophilins A and B, two diterpene heterodimers from *Isodon xerophilus*: structural elucidation and semisynthesis of isoxerophilin analogues

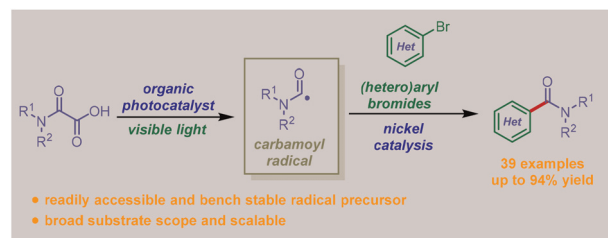
Jia-Meng Dai, Bing-Chao Yan, Ling-Mei Kong, Kun Hu, Xing-Ren Li, Xiao-Nian Li, Han-Dong Sun, Yan Li and Pema-Tenzin Puno*



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Photoredox Ni-catalyzed decarboxylative arylation of oxamic acids for amide synthesis

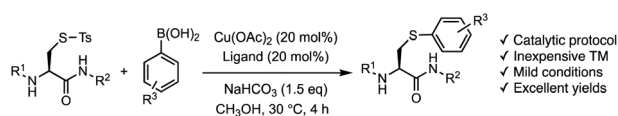
Depeng Duan and Lu Song*



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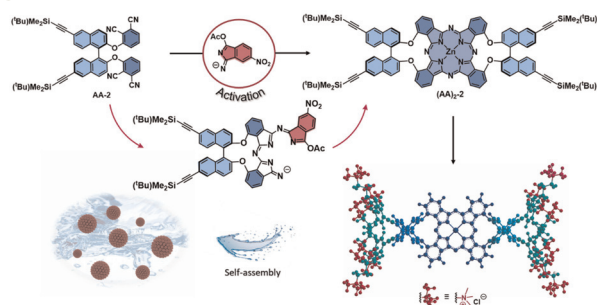
Cu-catalyzed arylation of *S*-tosyl peptides with arylboronic acids

Junjie Ying, Jingrong Huang, Chenguang Liu, Fa-Jie Chen,* Chunfa Xu* and Fen-Er Chen*



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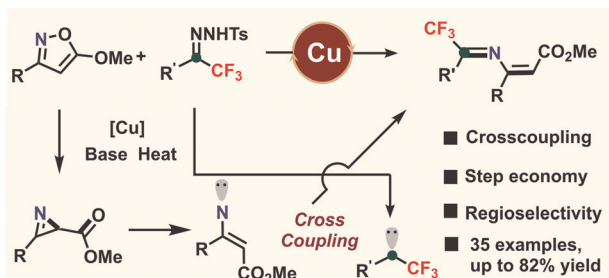
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Controlling the reactivity of phthalonitriles for the efficient synthesis of chiral phthalocyanines with self-assembly abilities

Irene Paramio, Tomás Torres and Gema de la Torre*

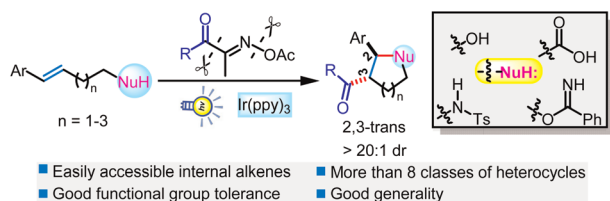
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Copper-catalyzed crosscoupling of vinyl nitrenes and CF₃-carbenes to synthesize CF₃-2-azadienes

Yongjuan Jiao, Tao Wu, Xinyu Zhang and Yaojia Jiang*

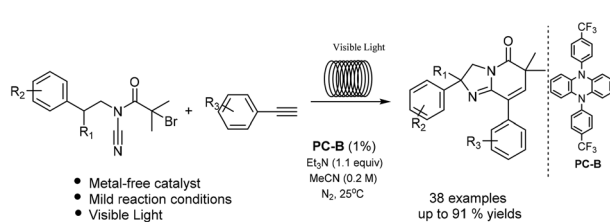
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Photoredox-catalyzed intramolecular oxy- and aminoacylation of alkenes with acyl oxime esters: facile synthesis of acylated saturated heterocycles

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Synthesis of imidazo[1,2-a]pyridinones via a visible light-photocatalyzed functionalization of alkynes/nitrile insertion/cyclization tandem sequence using micro-flow technology

Minghui Wei, Jiankun Chen, Chengkou Liu, Zhao Yang, Hong Qin, Yujing Hu, Jindian Duan, Yuguang Li, Zheng Fang* and Kai Guo*

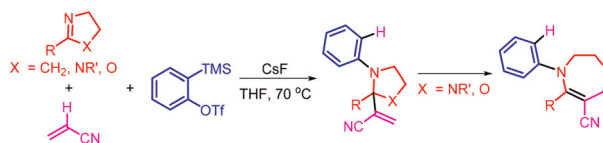


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A novel three-component coupling reaction of aryne, C=N derivatives, and acrylonitrile

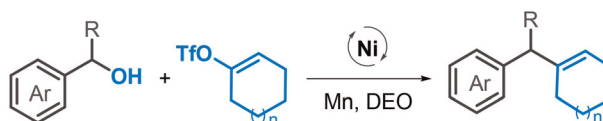
Yangang Wu, Wenbo Cai, Lulu Yu, Junbiao Chang* and Chuanjun Song*



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Nickel-catalyzed dynamic kinetic cross-electrophile coupling of benzylic alcohols and alkenyl triflates

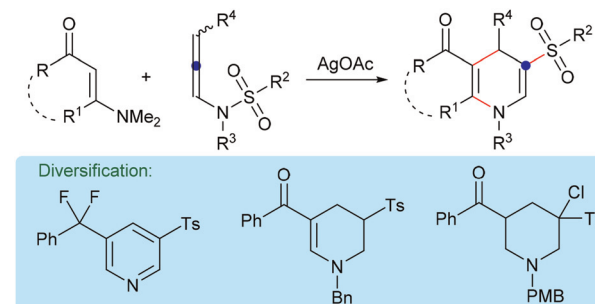
Xuejing Peng, Jingxian Huang, Guan-Yu Han and Xing-Zhong Shu*



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Silver-mediated synthesis of 1,4-dihydropyridine sulfones via [4 + 2] cyclization of N-allenylsulfonamides and enaminones with a 1,3-sulfonyl shift

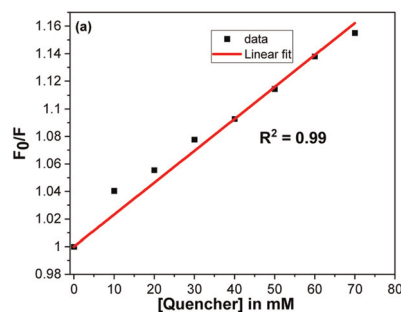
Shuguang Zhou, Shuang-Feng Dong, Xin Zhang, Shen-Yuan Zhang, Teck-Peng Loh* and Jie-Sheng Tian*



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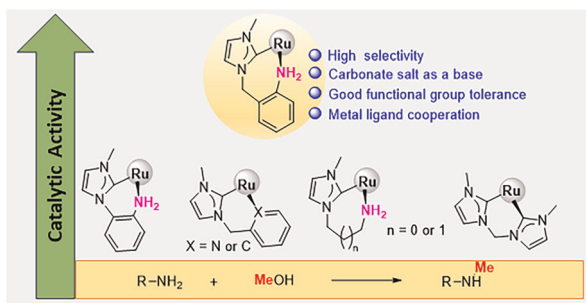
Unveiling the potency of a phenalenyl-based photocatalyst for intramolecular dehydrogenative lactonization

Partha Pratim Sen, Vishali Pathania and Sudipta Raha Roy*



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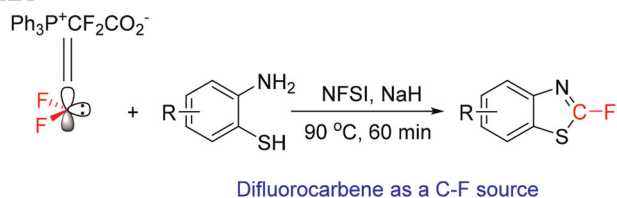
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NHC-amine Ru complex catalyzed selective mono-N-methylation of amines with methanol: understanding the effect of amine ligands

Xiuju Cai, Xiaoyu Zhou and Ming Huang*

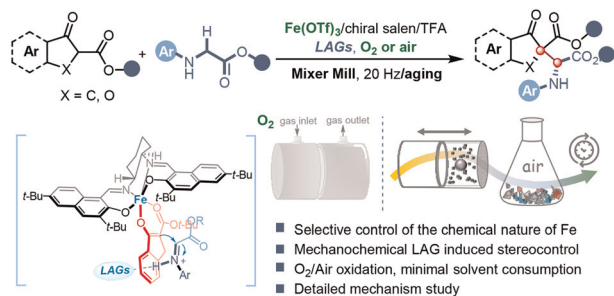
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Difluorocarbene as a C-F source for the construction of fluorinated benzothiazoles

Wen-Jie Pan, Jiao Yu, Wei-Guo Cao,* Ji-Chang Xiao* and Jin-Hong Lin*

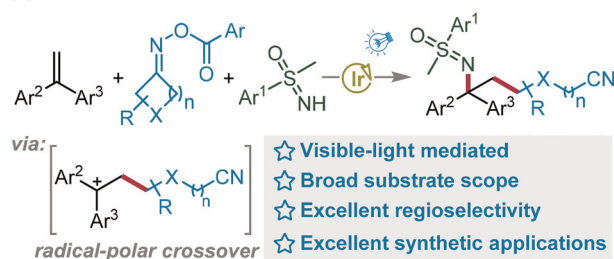
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Iron-catalyzed asymmetric Csp³-H/Csp³-H coupling: improving the chirality induction by mechanochemical liquid-assisted grinding

Ping Ying, Tao Ying, Hong Chen, Keyu Xiang, WeiKe Su, Haijiao Xie and Jingbo Yu*

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Photoredox-catalyzed difunctionalization of alkenes with oxime esters and NH-sulfoximines

Hao-Cong Li, Guan-Nan Li, Hao-Sen Wang, Yan Tan, Xiao-Lan Chen* and Bing Yu*

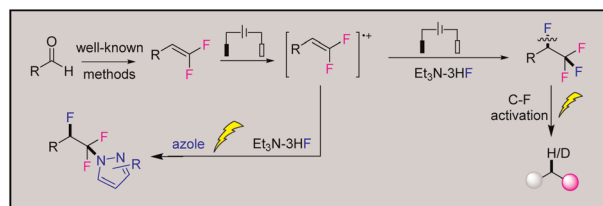


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Direct electrochemical difluorination and azo-fluorination of *gem*-difluorostyrenes

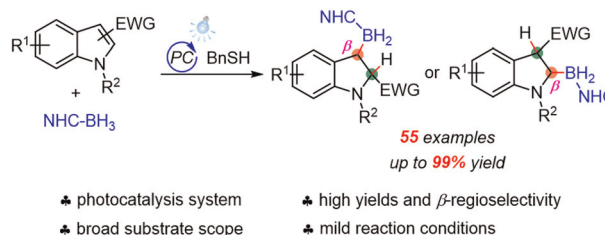
Linzi Wen, Boao Li, Ziyang Zou, Naifu Zhou, Chengbo Sun, Pengju Feng* and Hongsheng Li*



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Photoredox dearomative β -hydroborylation of indoles for the synthesis of borylated indolines

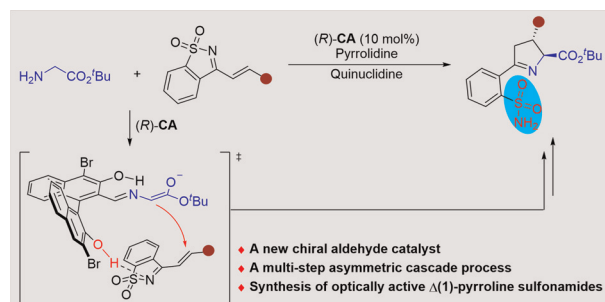
Yongchan Jian, Fei Wen, Jianping Shang, Xiaolong Li, Zhenyu Liu, Yuanyuan An* and Yubin Wang*



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Stereoselective synthesis of $\Delta(1)$ -pyrroline sulfonamides via a chiral aldehyde mediated cascade reaction

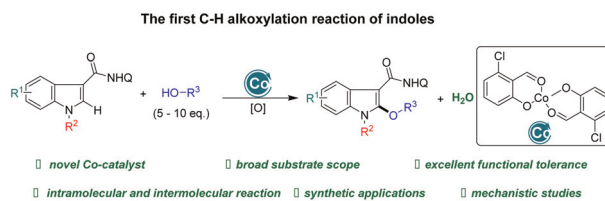
Wei Wen,* Zhao-Pin Ai, Zhu-Lian Wu, Tian Cai and Qi-Xiang Guo*



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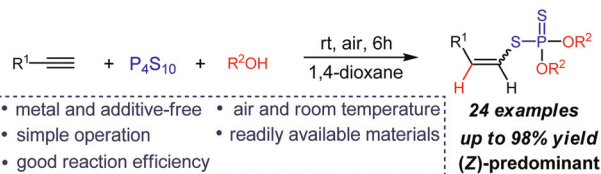
Rapid modular synthesis of indole ethers via dehydrogenative cross-coupling reaction of indoles and alcohols

Mao-Gui Huang, Xiao-Hong Chen, Hai-Bing Xu and Yue-Jin Liu*



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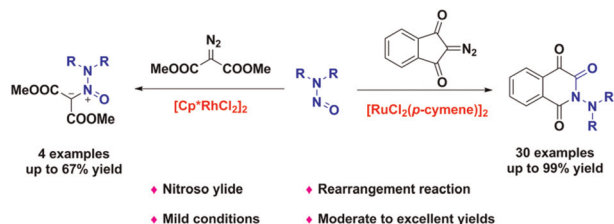
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Metal-free hydrophosphorodithiolation of alkynes with P_4S_{10} and alcohols leading to vinyl phosphorodithioates

Chengming Qu, Yalu Wang, Yufen Lv, Huilan Yue, Wei Wei* and Dong Yi*

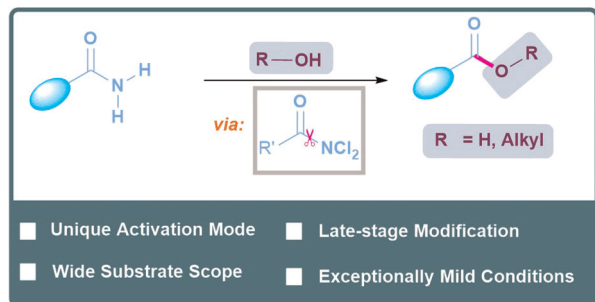
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Transition-metal catalyzed reactions of diazo compounds and *N,N*-dialkylnitrosoamines

Yuan Chen, Rui-jun Peng, Xue-jing Zhang and Ming Yan*

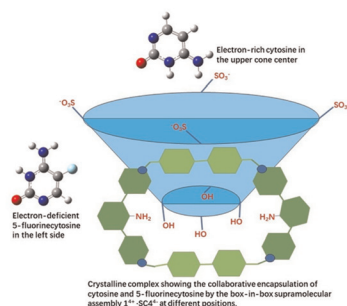
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Interception of $RCONCl_2$: late-stage hydrolysis and esterification of primary amides

Xiao Wan, Jiaxin Lin, Junjie Bai, Jingjing Li, Kaifeng Wang, Zhiyu Cao, Minggang Li, Xiaoguang Bao* and Xiaobing Wan*

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A box-in-box supramolecular assembly for the highly selective recognition of natural, epigenetically and chemically modified cytosines in water

Shu-Qin Qin, Wei Xu, Qi-Qi Wang, Run-Yi Chen, De-Zhi Yang, Yang Lu, Wen-Cai Ye* and Ren-Wang Jiang*

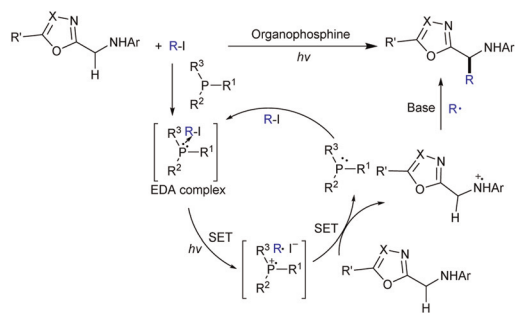


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Visible-light-driven C(sp³)-H alkylation of heterobenzylic amines *via* electron donor-acceptor complexes

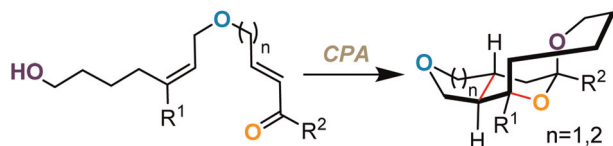
Yumei Huo, Beibei Chen, Zhaoqing Xu,* Xiaoyu Ren,* Rupeng Qi and Chao Wang*



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Chiral phosphoric acid catalyzed enantioselective inverse-electron-demand oxa-Diels-Alder reactions to synthesize chiral tricyclic tetrahydropyran derivatives

Cong-Yun Tang, Jie Wu, Feng-Ting Ji, Fang Tian, Lin Peng* and Liang-Liang Wang*



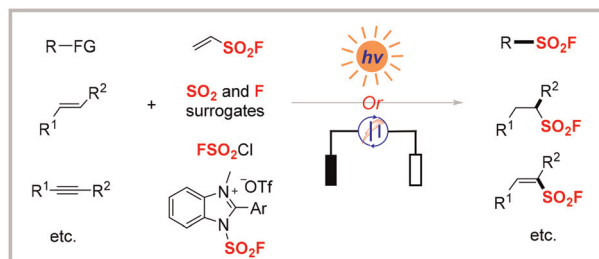
34 examples, dr > 20:1,
up to 95% yield, up to 99% ee,

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Recent advances in photochemical and electrochemical strategies for the synthesis of sulfonyl fluorides

Yu Zheng,* Wenguang Lu, Tianting Ma and Shenlin Huang*



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Straight-chain ω-amino-α,β-unsaturated carbonyl compounds: versatile synthons for the synthesis of nitrogen-containing heterocycles *via* organocatalytic reactions

Shuhui Li, Xiaoxuan Li, Hui Yao,* Mengting Tan, Dan Xu, Nianyu Huang* and Nengzhong Wang*

