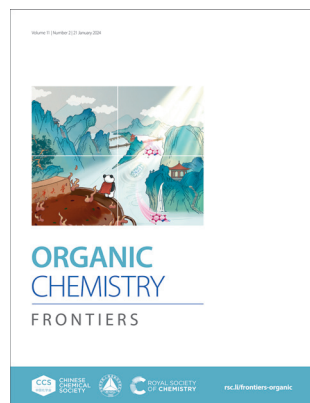


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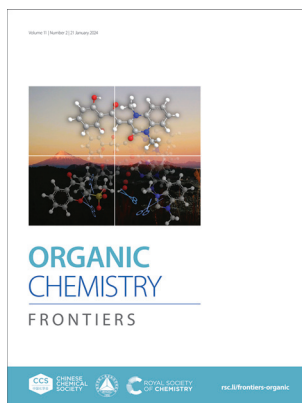


Cover

See Zhicheng Fu, Jingfang Li, Mingjun Chen *et al.*, pp. 270–276.

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Acknowledgements to Ms Qingqing Wan from Sichuan Technology and Business University for her substantial assistance and inspiration in the cover design.



Inside cover

See Yumiko Suzuki *et al.*, pp. 277–283.

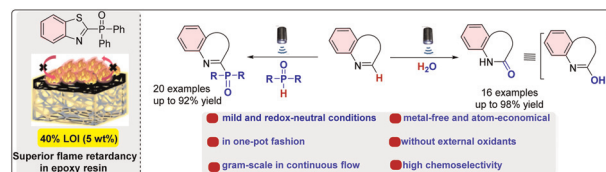
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Metal-free visible light-induced cross-dehydrogenative coupling of benzocyclic imines with water/P(O)H compounds: efficient access to functionalized benzazepines/ones

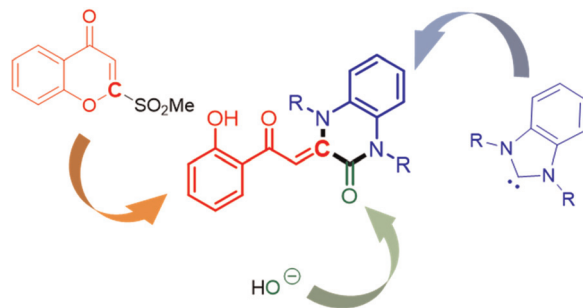
Zhicheng Fu,* Luping Feng, Yu Qin, Xinhui Mu, Xuqing Zhong, Zhouyu Wang, Ting Wang, Jinni Deng, Jingfang Li* and Mingjun Chen*



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Carbon atom insertion into *N*-heterocyclic carbenes to yield 3,4-dihydroquinoxalin-2(1*H*)-ones

Justin S. Lamb, Futa Koyama, Noriyuki Suzuki and Yumiko Suzuki*



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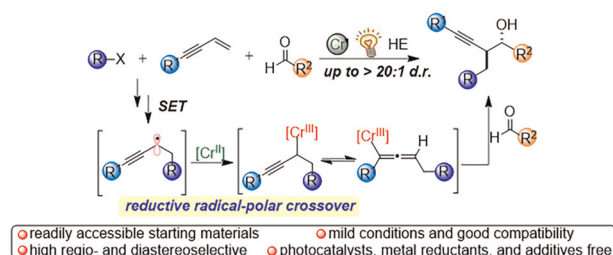
**Fundamental questions
Elemental answers**

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Diastereoselective 1,2-difunctionalization of 1,3-enynes enabled by merging photoexcited Hantzsch ester with chromium catalysis

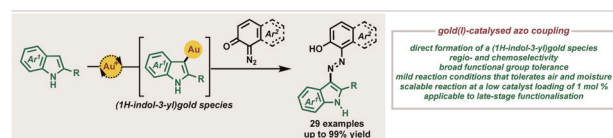
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Gold catalysed regio- and chemoselective azo coupling of 1,2- and 1,4-diazoquinones with 1H-indoles

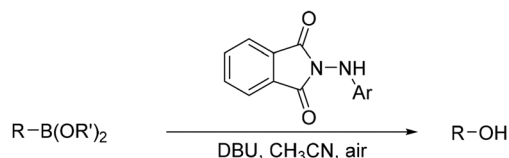
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N-Aminophthalimide-mediated aerobic deborohydroxylation of boronic acid in air

Tao Chen, Wenzheng Zhang, Zhenxing Yan, Ze-Feng Xu* and Chuan-Ying Li*

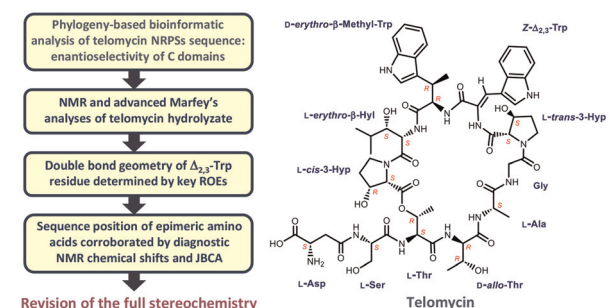


- Air as oxidant
- High efficiency
- Metal free mild conditions
- Readily accessible raw materials
- Broad substrate scope
- Oxidatively sensitive functional groups tolerated

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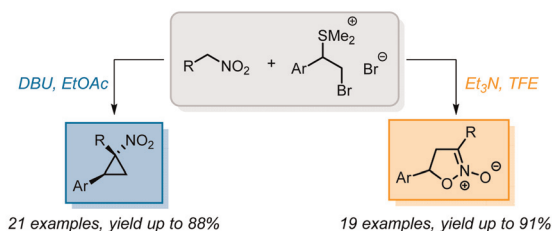
Revision of the full stereochemistry of telomycin

Sandra Resa, Marta González, Fernando Reyes and Ignacio Pérez-Victoria*



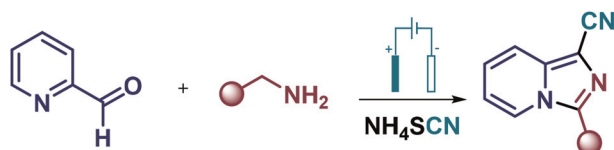
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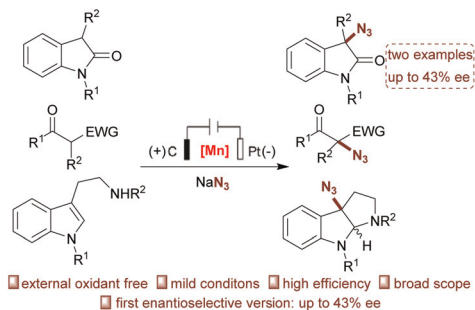
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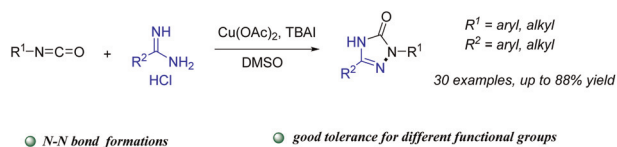
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Baihui Liang, Xiangya Cai, JingYu Liu, Jie Huang, Youzhi Chen, Haiyin Deng, Quanquan Zhou,* Tianxiang Chen, Xiuwen Chen* and Zhongzhi Zhu*

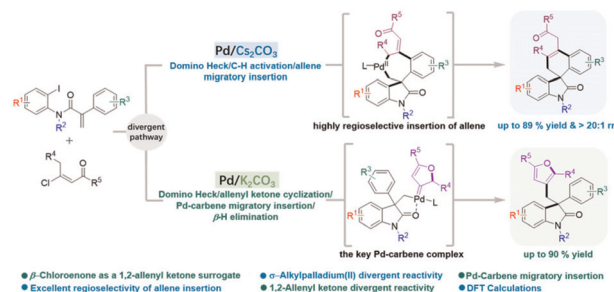


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Divergent reactivity of acrylamides and β -chloroenones under base-controlled palladium catalysis: construction of spirooxindoles and furan-containing 3,3-disubstituted oxindoles

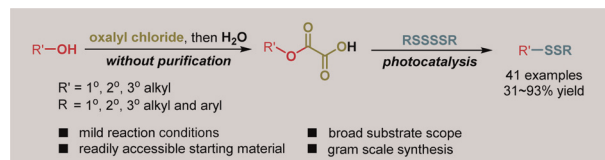
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Visible light photoredox-catalyzed deoxydisulfuration of alcohols

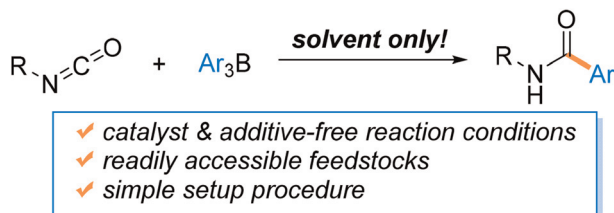
Chaoyang Liu, Xiaoman Lin, Delie An,* Xi Wang* and Qianwen Gao*



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A catalyst-free cross-coupling of isocyanates and triarylboranes for secondary amide synthesis

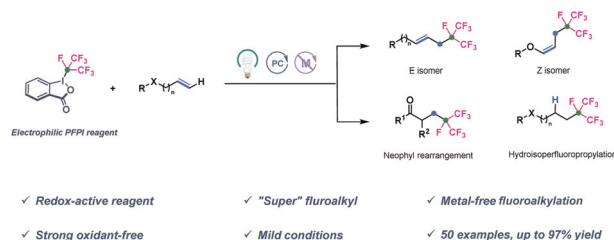
You-Wei Wu, Mu-Xiang Chen, Yan Li, Lu-Min Hu, Lili Zhao, Zhenhua Jia, Xuefei Zhao* and Xu-Hong Hu*



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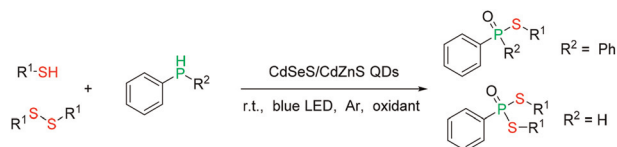
Light promoted metal-free regio- and stereoselective isoperfluoropropylation of unactivated alkenes with an i-C₃F₇-iodine(III) reagent

Yaxing Wu, Yunchen Jiang, Fei Wang, Bin Wang and Chao Chen*



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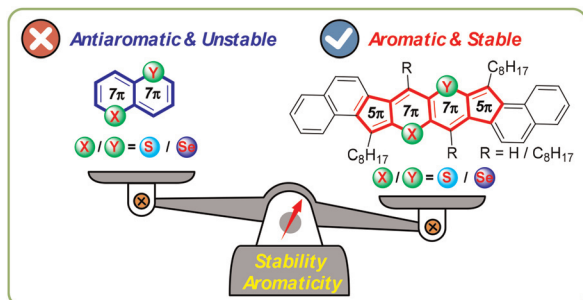
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Photocatalytic formation of P-S bonds via CdSeS/CdZnS quantum dots under visible light irradiation

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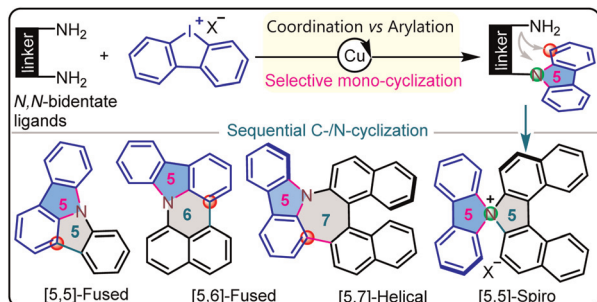
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Polycyclic aromatic hydrocarbons containing antiaromatic chalcogenopyrano[3,2-b]-chalcogenopyrans

Weinan Chen, Hao Zong, Yujie Xie, Jianping Xu, Jia-Wei Cai, Sui-Dong Wang* and Gang Zhou*

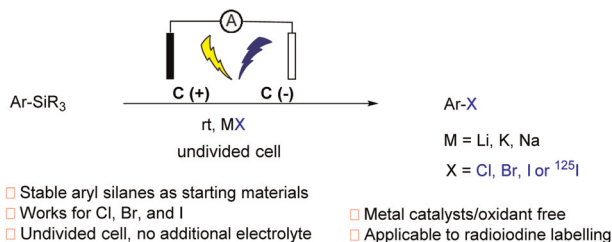
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Sequential annulation of bidentate diamines for modular access to N-fused/helical/spiro-carbazole scaffolds

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Electrochemical (radio)-halodesilylation of aromatic silanes

Kehao Gong, Long Lin, Xinyan Gao, Xiaojun Zeng, Bo Xu* and Junbin Han*

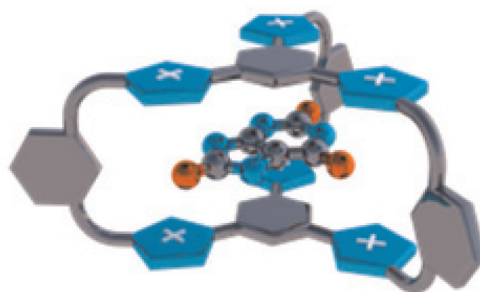


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Water-soluble hexakis-imidazolium cages: synthesis and selective binding of sodium urate

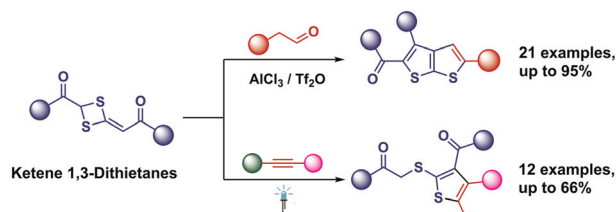
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Facile access to thieno[2,3-*b*]thiophenes and poly-substituted thiophenes through divergent annulation of ketene 1,3-dithietanes

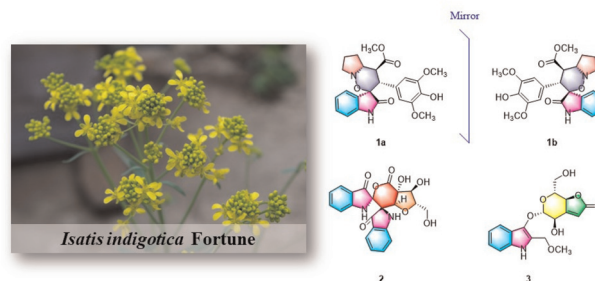
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Isatin-based spiro indolenine alkaloids from *Isatis indigotica* Fortune with anti-neuroinflammatory and acetylcholinesterase inhibitory effects

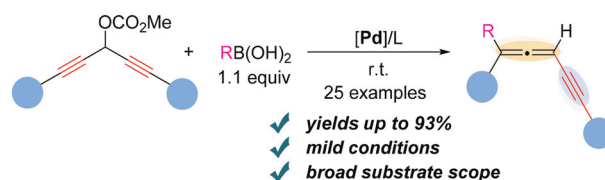
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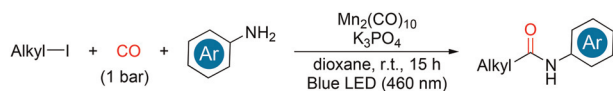
Synthesis of allenynes via Pd-catalyzed coupling of 1,4-diyn-3-yl carbonates with boronic acids

Jie Wang, Hui Qian* and Shengming Ma*



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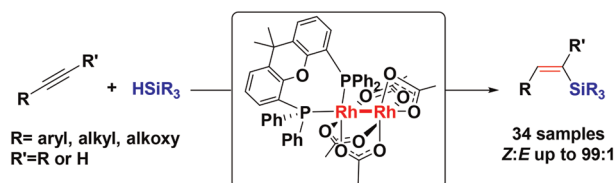
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Visible light-induced manganese-catalyzed aminocarbonylation of alkyl iodides under atmospheric pressure at room temperature

Yan-Hua Zhao, Xing-Wei Gu and Xiao-Feng Wu*

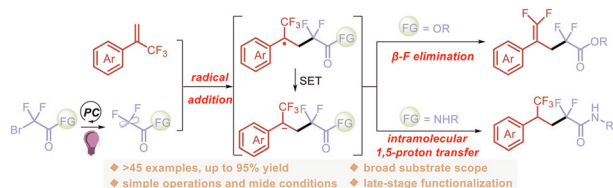
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Regio- and stereoselective hydrosilylation of alkynes with alkoxy silanes for the synthesis of β-(Z) vinylsilanes catalyzed by a dirhodium(II)/XantPhos complex

Liqun Yang, Wenkui Lu, Xiaoyu Wu, Yan Lu, Xiaomin Xie* and Zhaoguo Zhang*

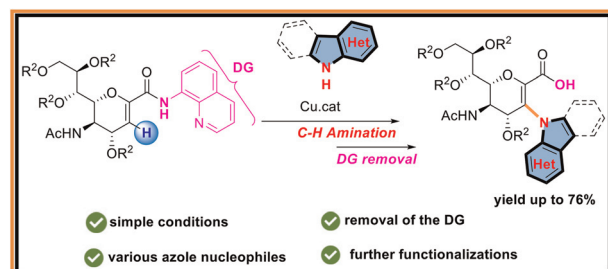
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Visible-light-driven selective difluoroalkylation of α-CF₃ alkenes to access CF₂-containing gem-difluoroalkenes and trifluoromethylalkanes

Panpan Lei, Bingran Chen, Tonghui Zhang, Qinlin Chen, Liangming Xuan, Haifeng Wang, Qiongjiao Yan, Wei Wang,* Jie Zeng* and Fener Chen*

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Directed copper-catalyzed dehydrogenative C–H amination of unsaturated sialic acids

Linlin Li, Angélique Ferry* and Samir Messaoudi*

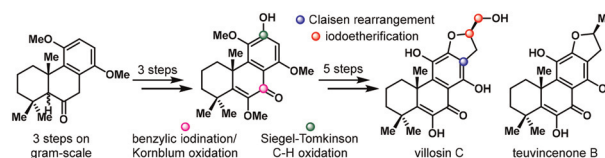


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Total synthesis of (±)-villosin C and (±)-teuvincenone B

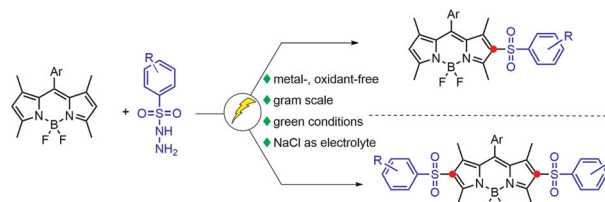
Jin-Xin Zhou, Ming-Jie Yan, Xiao-Yu Shi, Yue-Qi Wang, Hong-Yan Shen, Xu-Dong Mao* and Jie Wang*



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An electrochemical method for direct sulfonation of BODIPYs under green conditions

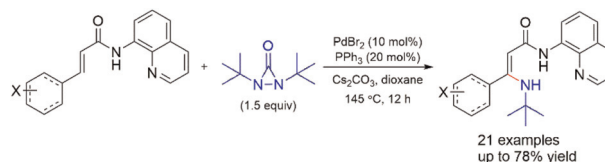
Zhuo Chen, Chen Li, Kui Liu, Li-Rong Wen, Ming Li* and Lin-Bao Zhang*



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Pd-catalyzed vinyl C–H amination with diaziridinone

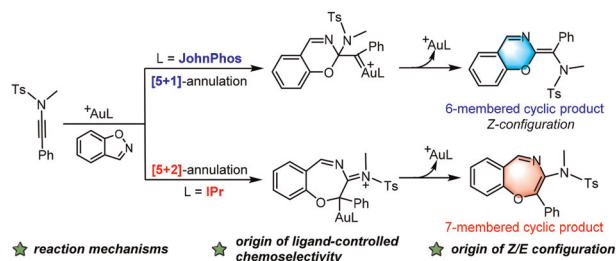
Jianjun Wang, Huiying Hong, Daguo Hu, Jiuling Liu, Wei Liu and Yian Shi*



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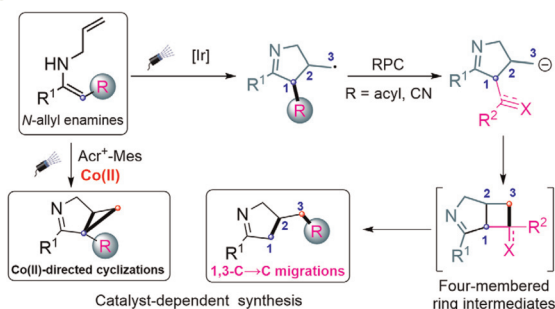
Theoretical insights into unraveling the mechanism, selectivity patterns, and ligand effects in gold(I)-catalyzed annulations between ynamides and isoxazoles

Qing Sun,* Jia-Jie Chen, Jia-Yi Liu, Wen-Qing Zhang, Xin Lu, Jin-Heng Li* and Ren-Jie Song*



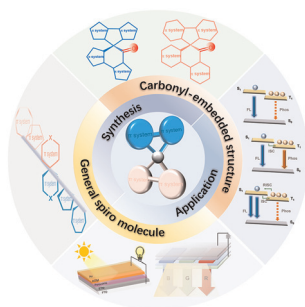
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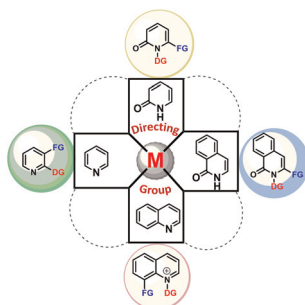


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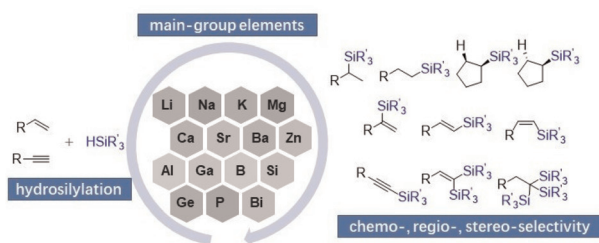
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Electrochemical difunctionalization of alkenes and alkynes for the synthesis of organochalcogens involving C–S/Se bond formation

Jianchao Liu,* Jie-Ping Wan and Yunyun Liu*

