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ISSN 1359–7345 CODEN CHCOFS 60(54) 6827–6966 (2024)



Cover

See Tatsuya Nishihara,
Kazuhito Tanabe et al.,
pp. 6059–6062.

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Inside cover

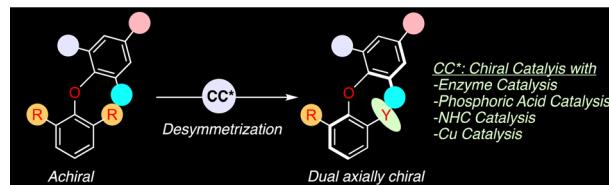
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HIGHLIGHTS

6837

Evolution in the asymmetric synthesis of biaryl ethers and related atropisomers

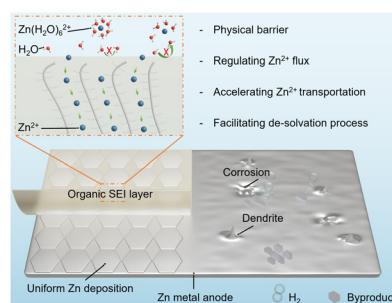
Namrata Kotwal and Pankaj Chauhan*



6847

Organic solid–electrolyte interface layers for Zn metal anodes

Ze He, Wei Huang, Fangyu Xiong, Shuangshuang Tan,
Tianhao Wu, Rui Wang, Caterina Ducati,*
Michael De Volder* and Qinyou An*



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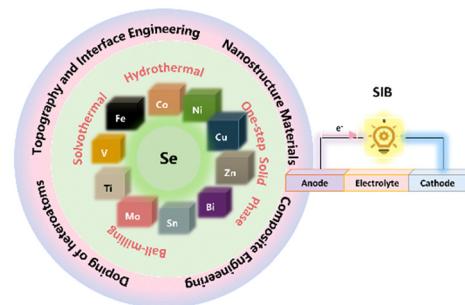


FEATURE ARTICLE

6860

Towards metal selenides: a promising anode for sodium-ion batteries

Mingjie Liu, Junling Xu, Lianyi Shao, Xiaoyan Shi,* Chunsheng Li* and Zhipeng Sun*

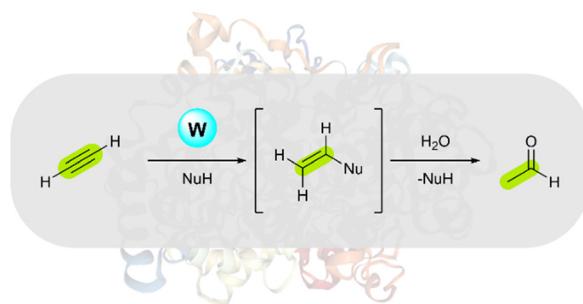


COMMUNICATIONS

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Vinyl-pyrazole as a biomimetic acetaldehyde surrogate

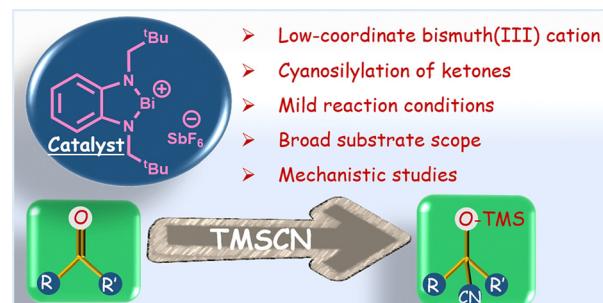
Lorenz Steiner, Miljan Z. Ćorović, Antoine Dupé and Nadia C. Mösch-Zanetti*



6877

Synthesis and catalytic application of a donor-free bismuthenium cation

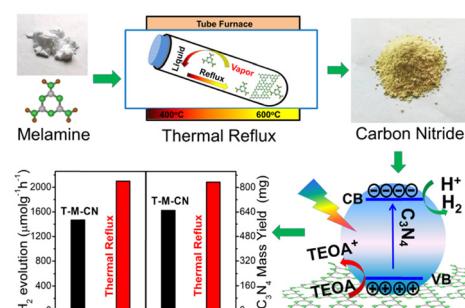
Nilanjana Sen, Pallavi Sarkar, Yadram Meena, Srinu Tothadi, Swapna K. Pati* and Shabana Khan*



6881

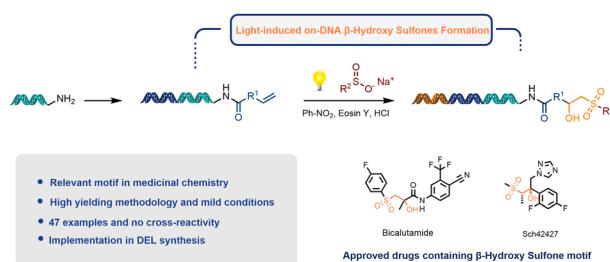
Thermal reflux to synthesise C₃N₄ nanostructures with high yield and enhanced photocatalytic activity in hydrogen evolution

Yihang He, Mingliang Wu and Kunquan Hong*



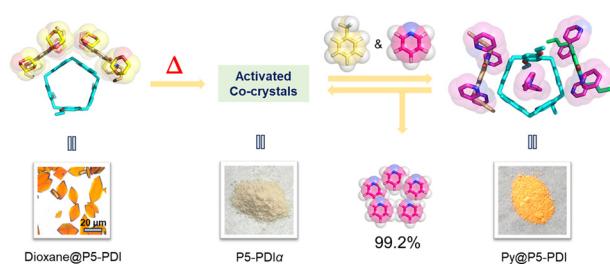
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**Light-induced β -hydroxy sulfone synthesis in DNA-encoded libraries**

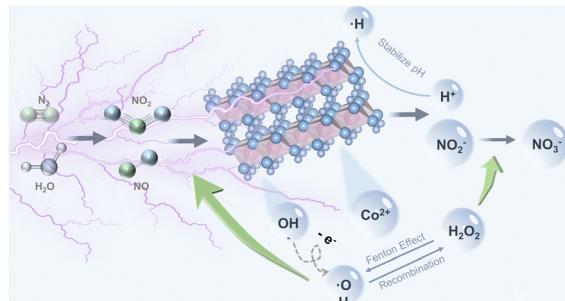
Lijun Xue, Jiaqing Yu, Ying Zhong, Junyun Chen, Chao Li, Kexin Yang, Nicolas Duchemin* and Yun Jin Hu*

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**Vapochromic separation of toluene and pyridine azeotropes using adaptive macrocycle co-crystals**

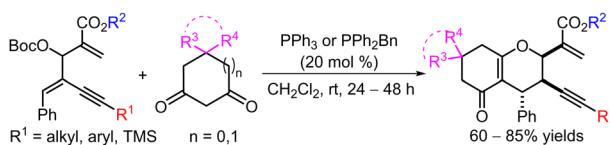
Bin Li*, Yun Wang, Yuan Wang, Yue Liu, Lu Wang, Zhi-Yuan Zhang and Chunju Li*

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**Solution plasma-cobalt hydroxide-enabled nitrogen fixation**

Yangwenting Ou, Jinglun Du, Changhua Wang,* Qi Wu, Shuang Liang, He Ma and Xintong Zhang*

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**Phosphine-catalyzed (3+3) annulation of cinnamaldehyde-derived Morita–Baylis–Hillman carbonates with dinucleophiles**

Yue Ren, Wangyu Shi, Yi Tang and Hongchao Guo*

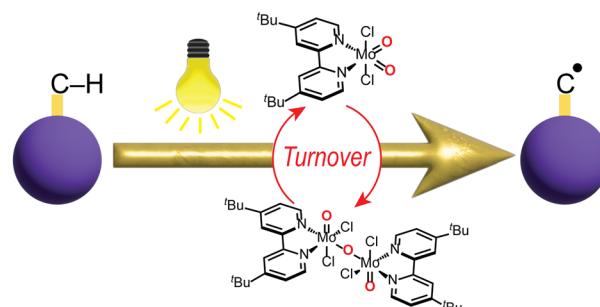


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Direct photocatalytic C–H functionalization mediated by a molybdenum dioxo complex

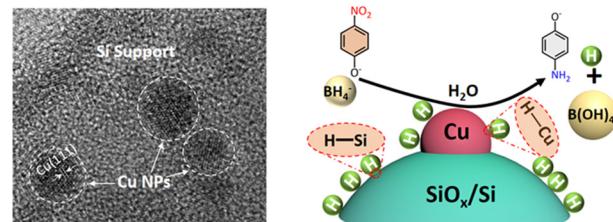
Courtney L. Baumberger, Victoria Z. Valley and Matthew B. Chambers*



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Facile synthesis of Cu-based catalysts from Cu₃Si and their catalysis properties study

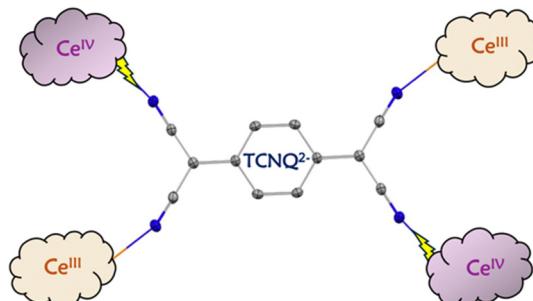
Yonghui Li, Xianhui Liu, Guangfu Zu, Zhiwei Yang, Xiao Huang and Shaozhou Li*



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Assembly of a trapped valent Ce^{III/IV}–TCNQ complex through metal–ligand redox cooperativity

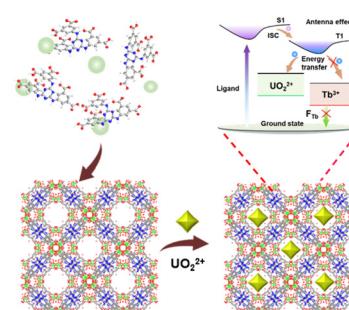
Himanshu Gupta, Brett D. Vincenzini, Alexandra M. Bacon and Eric J. Schelter*



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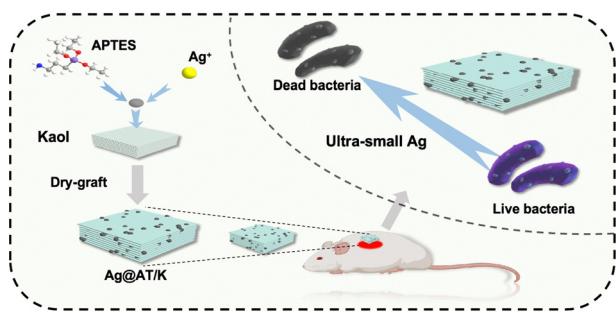
Site-recognition boosted the sensing performance of terbium-based organic frameworks for UO₂²⁺ detection

Kexuan Li, Yuan-Jun Tong, Qian Liu, Shiyu Peng, Xinying Gong, Dongmei Wang and Zhengjun Gong*

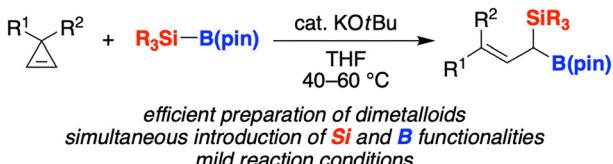


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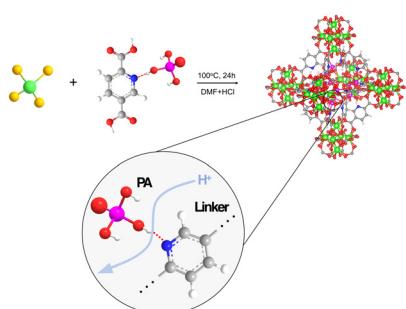


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**Kaolinite-mediated synthesis of ultra-small silver nanoparticles with high antimicrobial activity**

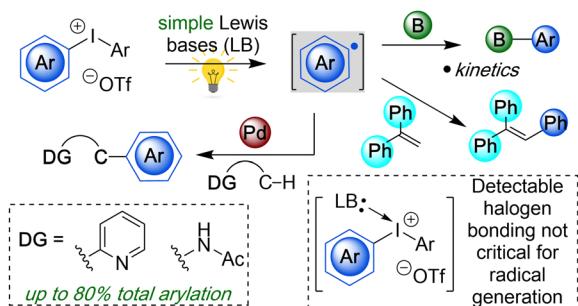
Menghan Qu, Menghan Yu,* Tianqi Liao and Huaming Yang*

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**Bottom-up synthesis of ion-pair-bridged metal-organic framework for H^+ conduction**

Keiichiro Maegawa,* Hayata Okamoto, Kazuhiro Hikima, Go Kawamura, Atsushi Nagai and Atsunori Matsuda*

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**Exogenous photocatalyst-free aryl radical generation from diaryliodonium salts and use in metal-catalyzed C–H arylation**

Jonathan Galicia, Nicholas R. McDonald, Christopher W. Bennett, Jiajun He, Mark D. Grossbrenner and Erik A. Romero*

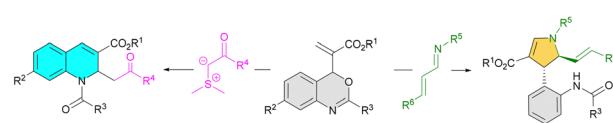


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Catalyst-free reaction of 2-(4H-benzo[d][1,3]oxazin-4-yl)acrylates: synthesis of 1,2-dihydroquinolines and 2,3-dihydropyrroles

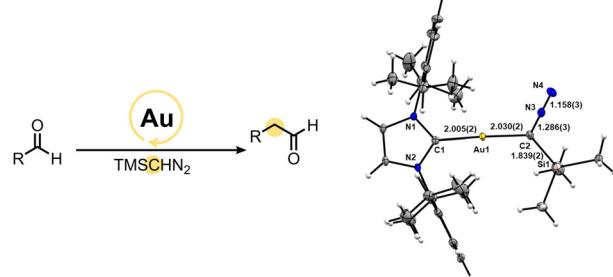
Tao Wang, Zhongyue Lu and Pengfei Li*



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Gold(I)-catalyzed homologation of aryl aldehydes with trimethylsilyldiazomethane

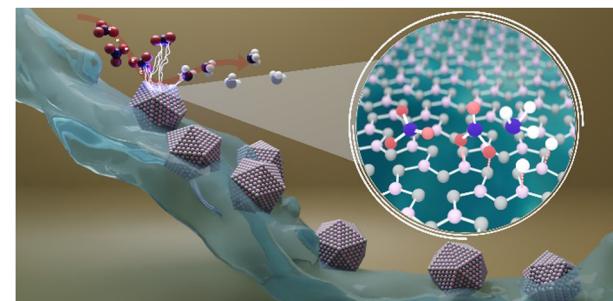
Abolghasem 'Gus' Bakhoda



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Ni₂P active site ensembles tune electrocatalytic nitrate reduction selectivity

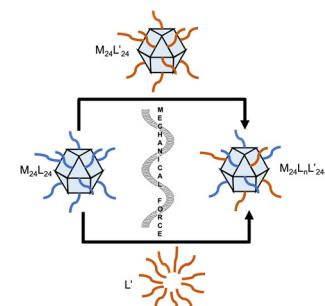
Emily Nishiwaki, Peter S. Rice, Ding-Yuan Kuo, Florence Y. Dou, Anthony Pyka, Bryce Reid, Hao A. Nguyen, Eric M. Stuve, Simone Raugei and Brandi M. Cossairt*



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Solvent-free mechanochemistry for the preparation of mixed-ligand cuboctahedral porous coordination cages

Jahidul Hoq and Eric D. Bloch*



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Electrochemical Sensor

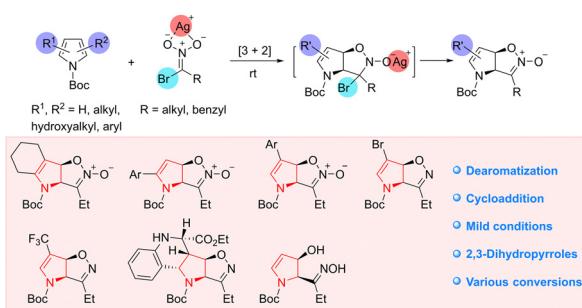


Recognition Efficiency 2.6

A porous aromatic cage-based electrochemical sensor for enantioselective recognition of DOPA

Junning Kou, Ziyu Zhu, Jianzhu Jiang, Li Chen, Kunhao Zhang,* Guogang Shan,* Xinlong Wang,* Zhongmin Su and Chunyi Sun*

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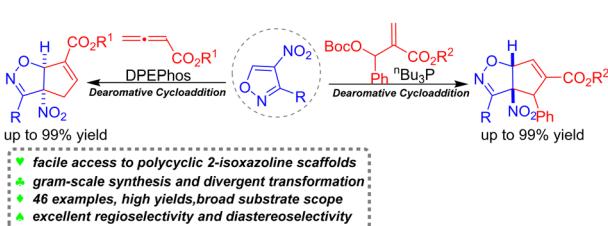
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Dearomatic pyrrole (3+2) reaction with geminal bromonitroalkane: synthesis of 2,3-dihydropyrroles

Lin Shi, Lidong Liu, Xingyu Lei, Yihan Wang, Yeguang Fang* and Peng Jiao*

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Carbazole-embedded *p*-benziporphyrinoid: synthesis, structure and a reversible chemodosimeter for mercury(II) ions

Athira Naniyil, Naveen Koroth Valappil, Alex P. Andrews and Sabapathi Gokulnath*

Phosphine-catalyzed dearomatic [3+2] cycloaddition of 4-nitroisoxazoles with allenates or Morita–Baylis–Hillman carbonates

Yongjun He, Tian-Juan He, Xiufang Cheng, Yibo Wei, Huamin Wang* and Ying-Wu Lin*

