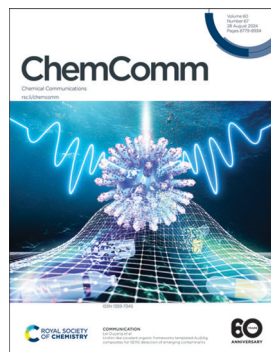


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ISSN 1359-7345 CODEN CHCOFS 60(67) 8779-8934 (2024)



Cover

See Lei Ouyang *et al.*, pp. 8840–8843. Image reproduced by permission of Lei Ouyang from *Chem. Commun.*, 2024, 60, 8840.



Inside cover

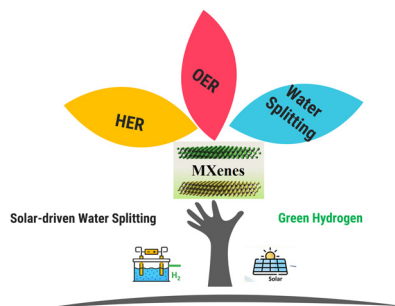
See Peng Bai *et al.*, pp. 8844–8847. Image reproduced by permission of Jiacheng Wang and Peng Bai from *Chem. Commun.*, 2024, 60, 8844.

HIGHLIGHTS

8789

Value addition of MXenes as photo-/electrocatalysts in water splitting for sustainable hydrogen production

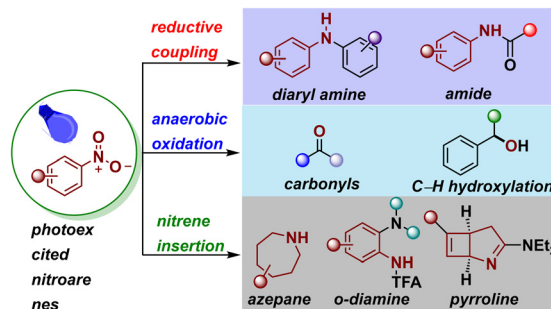
Sudeshana Pandey, Yongsuk Oh, Mukesh Ghimire, Ji-Won Son, Minoh Lee* and Yongseok Jun*



8806

Shining light on the nitro group: distinct reactivity and selectivity

Ranjan Jana* and Kangkan Pradhan



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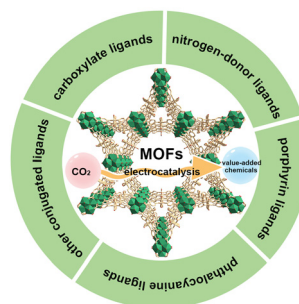
Fundamental questions
Elemental answers

FEATURE ARTICLE

8824

Rational design of organic ligands for metal–organic frameworks as electrocatalysts for CO₂ reduction

Ya Zhang and Wei-Yin Sun*

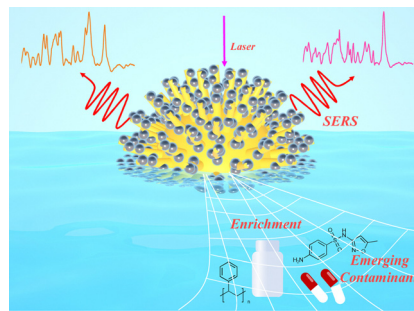


COMMUNICATIONS

8840

Urchin-like covalent organic frameworks templated Au@Ag composites for SERS detection of emerging contaminants

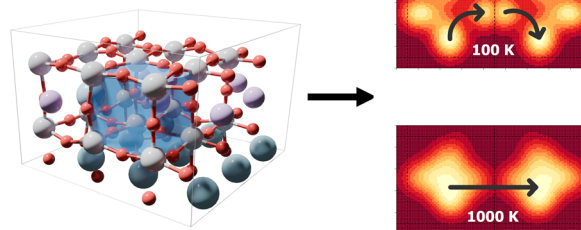
Xiaoya Yuan, Weihua Wang, Mantang Chen, Lijin Huang, Qin Shuai and Lei Ouyang*



8844

Temperature-dependent Li-ion transport in lithium lanthanum titanate electrolytes

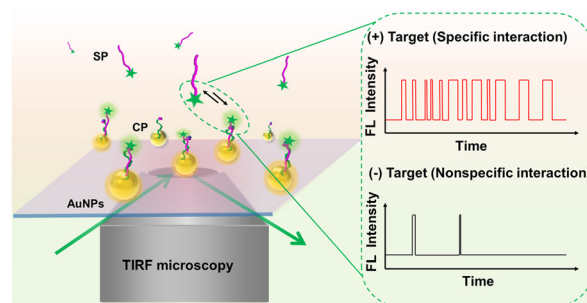
Jiacheng Wang, Nianqiang Wu and Peng Bai*

Li⁺ ion hopping in solid-state LLTO electrolytes

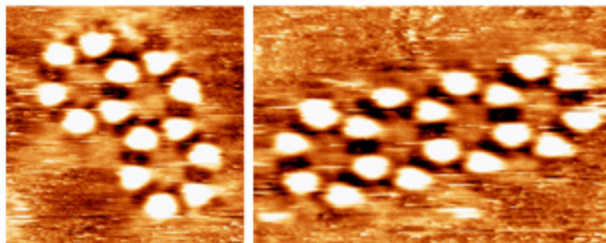
8848

Plasmonic nanoparticle-assisted single-molecule dynamic binding for protein kinase activity digital counting

Qingnan Li, Wenzhi Qiang, Yanan Deng and Lehui Xiao*



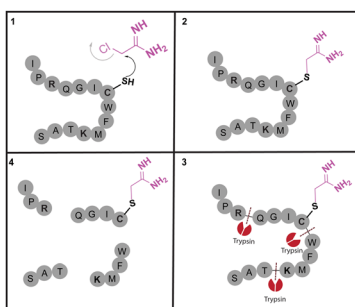
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Molecular islands at the liquid–solid interface

Yi Hu, Kazukuni Tahara* and Steven De Feyter*

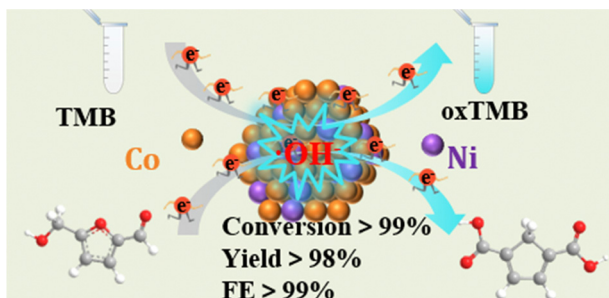
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Generating cysteine-trypsin cleavage sites with 2-chloroacetamide capping

Samuel Ofori, Heta S. Desai, Flowreen Shikwana, Lisa M. Boatner, Emil R. Dominguez III, José O. Castellón and Kerian M. Backus*

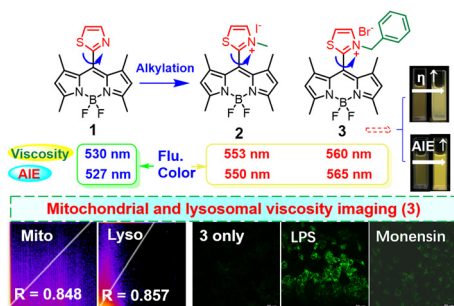
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Bimetallic nanozymes synergize to regulate the behavior of oxygen intermediates and substrate HMF adsorption

Lei Shi, Qiang Li, Shuang Liu, Xinyang Liu, Shucheng Yang, Chunxia Chen,* Zhijun Li* and Song Liu*

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Construction of cationic *meso*-thiazolium-BODIPY AIE fluorescent probes for viscosity imaging in dual organelles

Yu-Xin Tang, Yingmei Cao, Wen-Jing Shi,* Jin-Cheng Li, Wei-Lin Lu, Ting Fan, Liyao Zheng, Jin-wu Yan,* Dongxue Han and Li Niu*

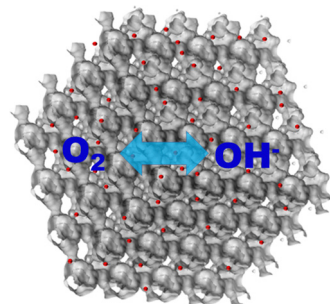


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Molten-salt-assisted preparation of porous carbon foams for efficient oxygen electrocatalysis in zinc–air batteries

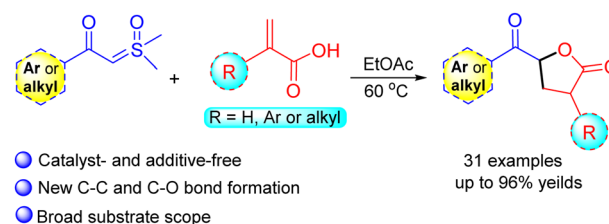
Jizhen Ma, Xinxin Shu, Song Chen, Qianwu Chen, An-Liang Wang and Jintao Zhang*



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Annulative coupling of α -substituted acrylic acids and sulfoxonium ylides: easy access to bioactive γ -butyrolactones

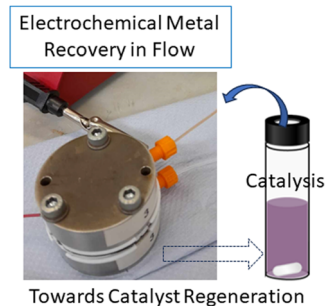
Naveen Kumar and Satyendra Kumar Pandey*



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Electrochemical removal of toxic metals from reaction media following catalysis

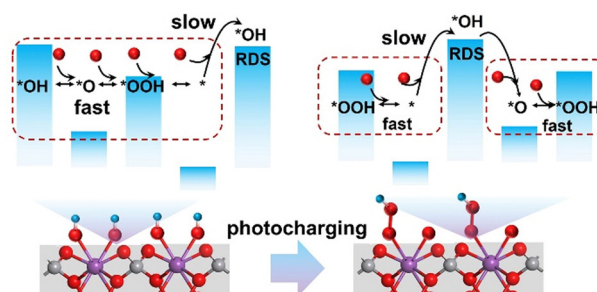
David R. Husbands, Elisha M. Booth, Niall W. B. Donaldson, Nikil Kapur, Rebecca M. Willans and Charlotte E. Willans*



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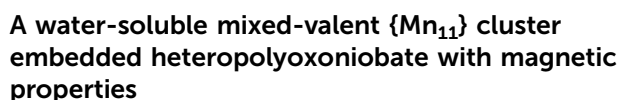
Revisiting the photocharging effect on the BiVO₄ (010) surface by identifying the charge reaction kinetics

Yanjie Liu, Meiyong Gong, Jundie Hu, Jiafu Qu, Qingqing Li, Zhichao Zhang, Wei Sun, Xiaogang Yang* and Chang Ming Li*

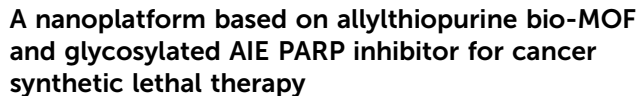




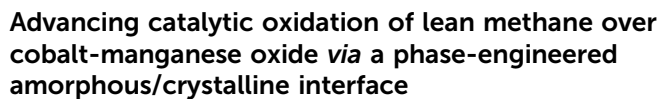
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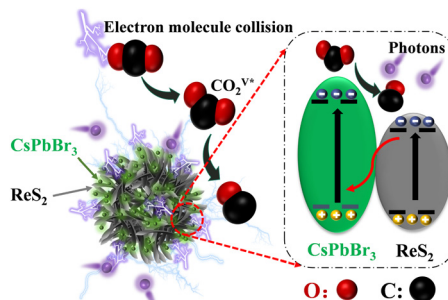
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Enhanced CO₂ conversion in dielectric barrier discharge plasma coupled with a heterojunction photocatalyst

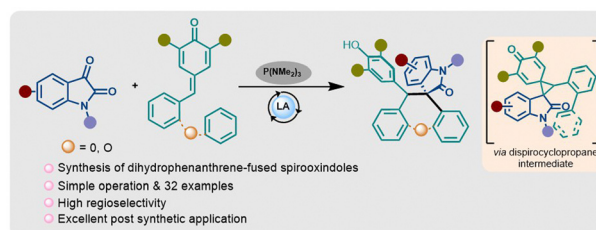
Xiao Feng, Lefei Cao, Chengfan Fu, Fei Qi,* Nan Zhang, Yayun Pu, Zhiyu Liang, Xiaosheng Tang* and Qiang Huang*



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A diastereoselective strategy for dihydrophenanthrene-fused spirooxindoles via [1,2]-phospha-Brook rearrangement

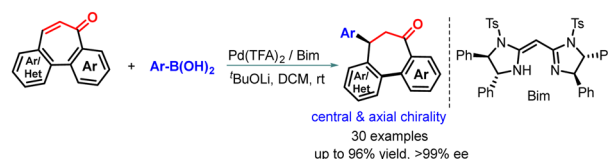
Amjad Ali, Harish K. Harit, Chandana Behera and Ravi P. Singh*



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Construction of central and axial chirality via Pd(II)/Bim-catalyzed asymmetric dearomative Michael reaction of polycyclic tropones

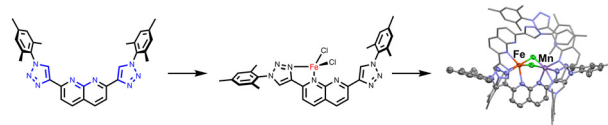
Zi-Li Liu, Yu-Xin Wang, Zi-Qi Yang, Yu-Heng Yang, Yin-Ping Liu, Wen-Juan Hao* and Bo Jiang*



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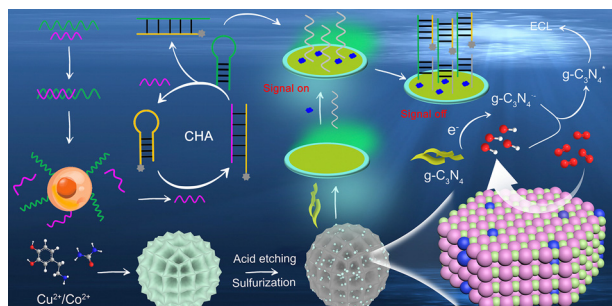
Iron homo- and heterobimetallic complexes supported by a symmetrical dinucleating ligand

Pablo Rios, Matthew S. See, Oscar Gonzalez, Rex C. Handford, Amélie Nicolay, Guodong Rao, R. David Britt,* D. Kwabena Bediako* and T. Don Tilley*



COMMUNICATIONS

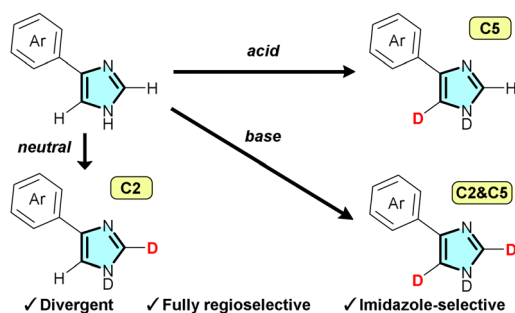
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Oxygen electrocatalysis-driven electrochemiluminescence by hierarchical carbon nanoflower-supported copper-modulated cobalt sulfide for cytosensing

Yue Cao, Yan-Yan Gao, Qing-Yuan Bao, Yu Cao, Jun-Jie Zhu* and Yang Zhou*

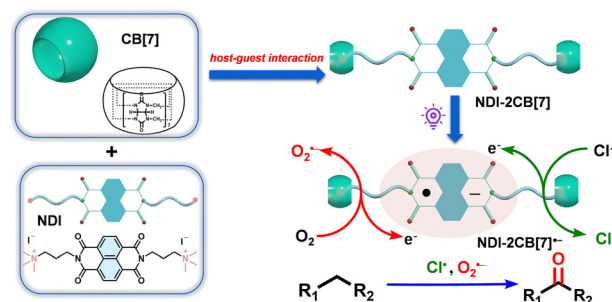
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Divergent and chemoselective deuteration of *N*-unsubstituted imidazoles enabled by precise acid/base control

Atsushi Kaga,* Hayate Saito and Mitsuhsa Yamano*

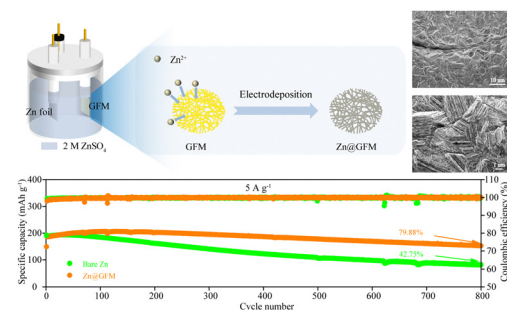
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A supramolecular naphthalenediimide radical anion through host–guest interactions for photooxidation of alkylarenes to carbonyls

Xin-Long Li, Kai-Kai Niu, Shengsheng Yu, Hui Liu and Ling-Bao Xing*

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Achieving dendrite-free growth of Zn anode by electrodepositing on zincophilic gold-furnished mesh for aqueous zinc-ion batteries

Siqi Liao, Tie Shu, Xin Yang, Huanxiao Li, Xiaofei Ma, Zhaohui Liu,* Yuxin Zhang* and Ke Xin Yao*

