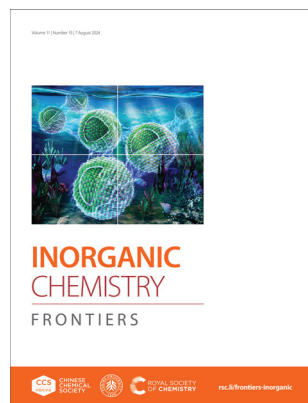


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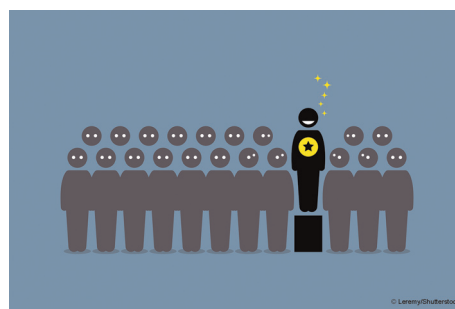
See You Zi, Weichun Huang *et al.*, pp. 4568–4575.

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EDITORIAL

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Outstanding Reviewers for *Inorganic Chemistry Frontiers* in 2023

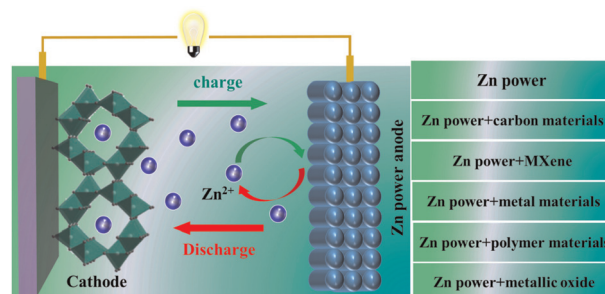


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Advanced aqueous zinc-ion batteries based on an anode constructed from zinc powder: a review

Le Li, Shaofeng Jia, Yue Shi, Conghui Wang, Hengwei Qiu, Yongqiang Ji, Minghui Cao* and Dan Zhang*



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REVIEWS

4499

 $^{225}\text{Ac}/^{213}\text{Bi}$ radionuclide generators for the separation of ^{213}Bi towards clinical demands

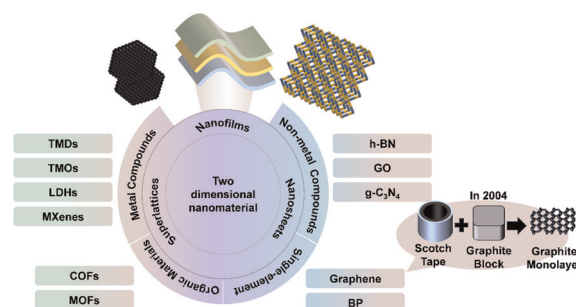
Hongshan Zhu, Stephan Heinitz, Koen Binnemans, Steven Mullens and Thomas Cardinaels*



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Synthesis and electrochemical application of two-dimensional manganese-based materials

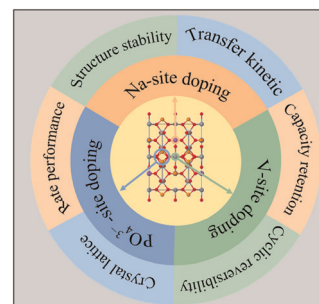
Jing Hu,* Panpan Tao, WenYu Fan, Rui Yang, Haoyu Feng, Bingrong Guo, Haijin Li, Li Xu* and Siwei Li*



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Doping modification of sodium superionic conductor $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ cathodes for sodium-ion batteries: a mini-review

Yurui Shao, Yijun Qian,* Tianshu Zhang, Pengcheng Zhang, Haocong Wang,* Tao Qian and Chenglin Yan*

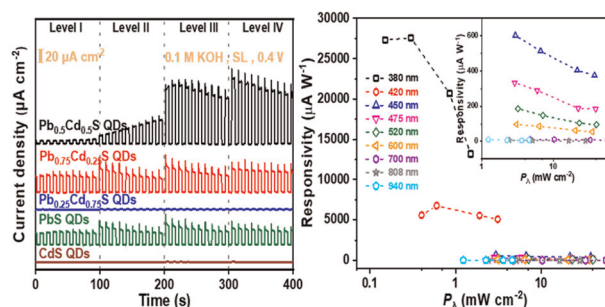


RESEARCH ARTICLES

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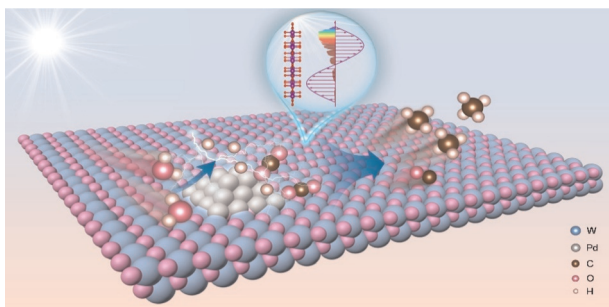
Ternary $\text{Pb}_{1-x}\text{Cd}_x\text{S}$ quantum dot-based UV-vis-NIR photoelectrochemical photodetection with superior photoresponsivity and detectivity

Youhua Zhu, Zhihui Huang, Songrui Wei, Yi Hu, Hongyan Chen, Mengke Wang, You Zi* and Weichun Huang*



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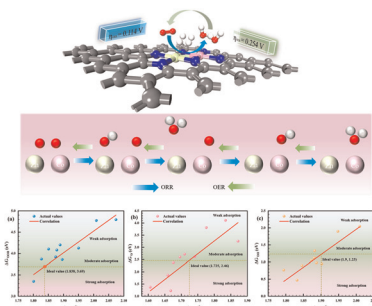
4576



Enhanced photocatalytic CO₂ reduction to CH₄ via restorable surface plasmon and Pd_n-W^{δ+} synergistic sites

Weisheng Hu, Zehua Liu, Liang Chen,* Ting Wang, Yangguang Hu, Ran Long, Dong Liu* and Benxia Li*

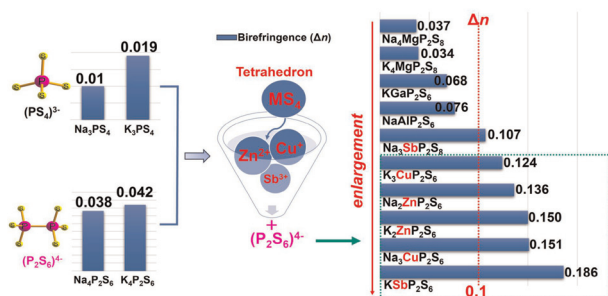
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Insights into the origin of Co-based bimetallic catalysts with a *para*-structure exhibiting ORR and OER bifunctional activities

Yuxi Zhu, Chaoling Han and Zhenqian Chen*

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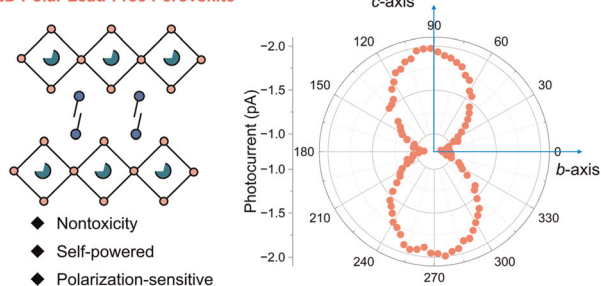


Greatly enhanced optical anisotropy in thiophosphates inspired by rational coupling of tetrahedra and ethane-like [P₂S₆]⁴⁻ groups

Ning Zhao, Dazhi Lu,* Jingjing Xu, Kui Wu,* Haohai Yu* and Huajin Zhang

4611

2D Polar Lead-Free Perovskite



A polar two-dimensional lead-free hybrid perovskite for self-powered polarization-sensitive photodetection

Cheng-Dong Liu, Chang-Chun Fan, Bei-Dou Liang and Wen Zhang*

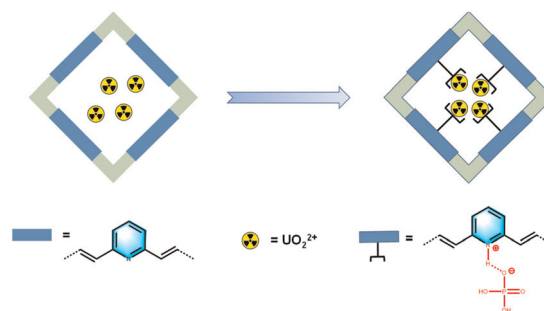


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Direct phosphorylation of a pyridine-functionalized porous organic polymer for efficient uranium capture

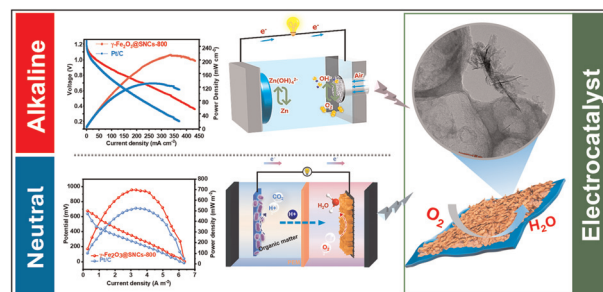
Anni Ye, Lizhen Zhong, Liecheng Guo, Feng Gao, Zhiwu Yu* and Feng Luo*



4625

γ -Fe₂O₃ decorating N,S co-doped carbon nanosheets as a cathode electrocatalyst for different-scenario fuel cells

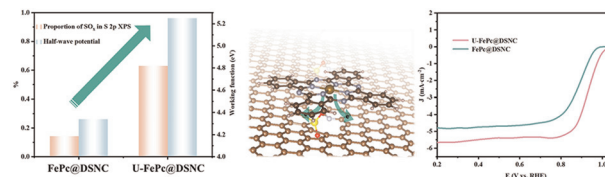
Xintao Zhou, Mingyang Wu, Kai Chen, Haijian Wang, Zhenhai Wen* and Suqin Ci*



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Synergistic coupling of defective SO_x-containing carbon and iron phthalocyanine for efficient oxygen reduction

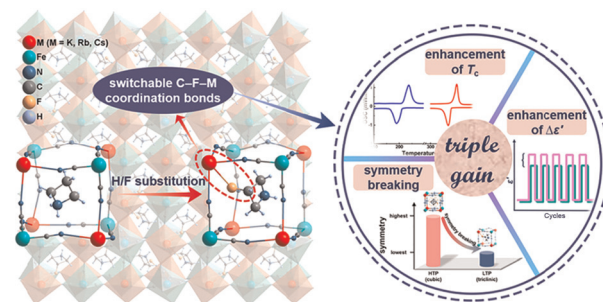
Yu Cao, Yukun Zhao, Yan Zhang, Kai Zhu, Xinjun Wang, Ge Li,* Qing Zhang* and Zhengyu Bai*



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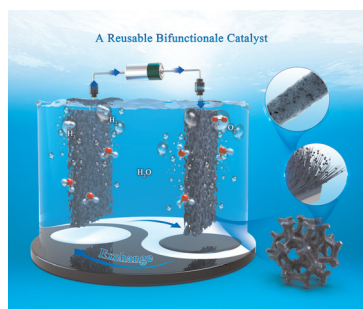
Switchable coordination bonds in 3D cyano-bridged perovskite ferroelastics: achieving the largest leap of symmetry breaking and enhanced dielectric switching performance

Sheng-Qian Hu, Meng-Zhen Li, Zhao-Hong Chen, Jun-Si Zhou, Luan-Ying Ji, Yong Ai and Xiao-Gang Chen*



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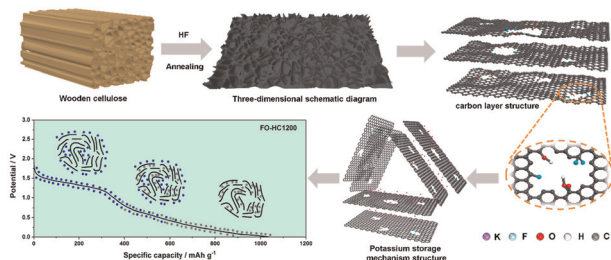
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Construction of a reversible-cycling bifunctional electrocatalyst $\text{CoP}_2@\text{Co}(\text{CO}_3)_{0.5}\text{OH}/\text{Cu}/\text{NF}$ with Mott–Schottky structure for overall water splitting

Xinyuan Liao, Xiaomin Lang, Ting Zhang, Chunmei Li, Jian Zou, Qing Li, Weihua Hu and Hua Lin*

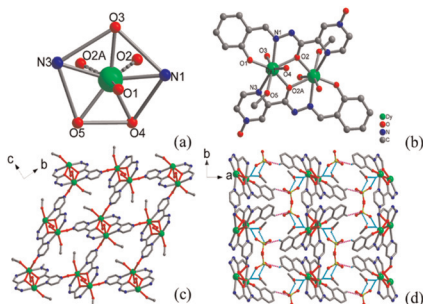
4672



A fluorine/oxygen co-doping scheme for biomass carbon provides excellent rapid reaction kinetics for sodium/potassium-ion batteries

Liuchao Yang, Bin He, Mingxin Li, Shenghu Li, Dan Xiao, Yujue Wang, Yan Meng, Qian Zhao,* Qu Yue* and Wei Feng*

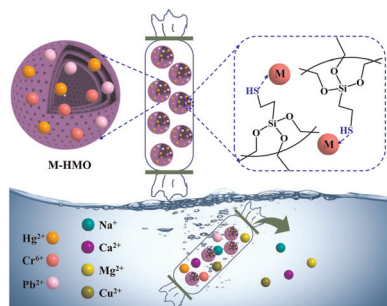
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Coordination-driven assembly of dysprosium layers into a framework featuring enhanced energy barriers and quantum tunneling of magnetization

Zhen-Na Huang, Rong Sun, Fang Ma, Jing Yang, Xiao-Xiao Huang, Hao-Ling Sun* and Song Gao*

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Tunable hollow mesoporous organosilica for efficient adsorption of heavy metal ions from water

Meng Cheng, Yuqi Liu, Hao Jiang, Chunling Li,* Shuangqing Sun and Songqing Hu*

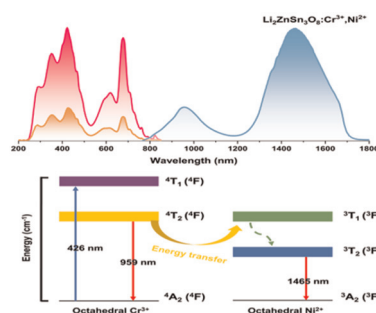


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Blue light-excited broadband NIR-II-emitting $\text{Li}_2\text{ZnSn}_3\text{O}_8:\text{Cr}^{3+},\text{Ni}^{2+}$ phosphor for multifunctional optical applications

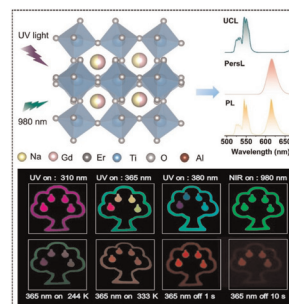
Zhexuan Gao, Yi Zhang, Yinyan Li, Shilong Zhao, Peng Zhang, Xiaolong Dong, Degang Deng* and Shiqing Xu*



4721

Multicolor and multimodal luminescence in an Er^{3+} single-doped double perovskite for advanced anti-counterfeiting and encryption

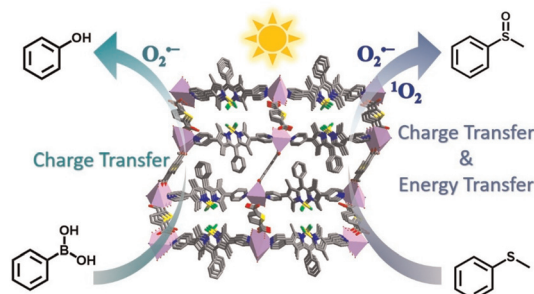
Sixia Li, Peng Zhang, Zhenbing Wang, Yuzhu Yang, Xuan Miao and Weisheng Liu*



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Novel BODIPY-based MOFs toward high-efficiency photocatalytic oxidation of sulfides and arylboronic acids

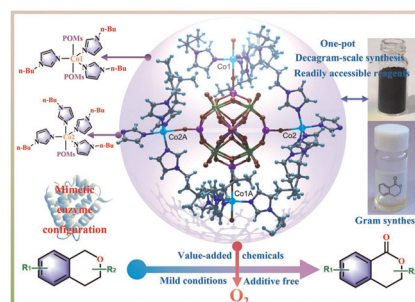
Qian Kang, Shao-Dan Wang, Jie Guo, Kai-Li Mo, Kang-Le Lv and Li-Li Wen*



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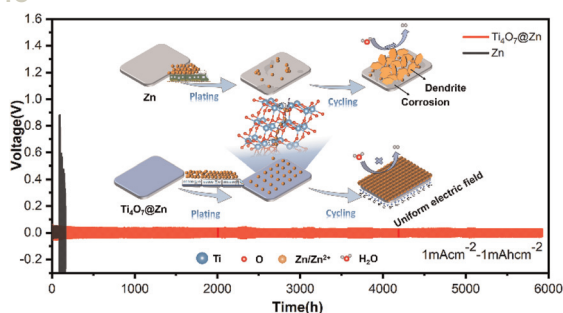
An artificial enzyme of a polyoxometalate-supported cobalt complex for the oxidation of isochromans to isochromanones by activating O_2

Xiangyu Ren, Hongrui Tian, Baokuan Chen,* Lingling Dai, Yanfeng Bi* and Guoping Yang*



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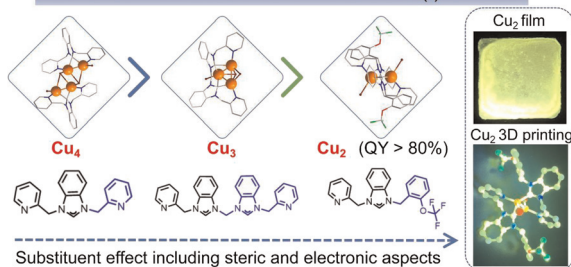


Ti₄O₇ coating creates a highly stable Zn anode for aqueous zinc-ion batteries

Mengjuan Chen, Yimeng Cui, Wenfeng Liu, Zhenpu Shi, Hongyu Dong, Hongyun Yue, Zhaoxia Cao, Zhansheng Lu, Shuting Yang* and Yanhong Yin*

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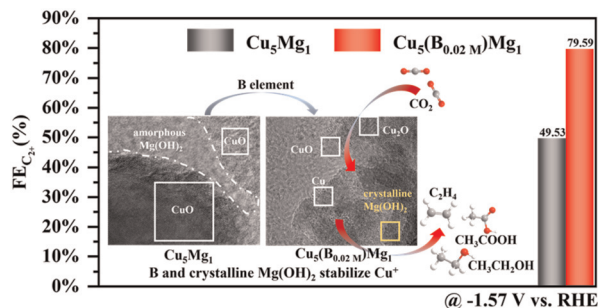
Structural Evolution of NHC-Protected Cu(I) Clusters



Structural regulation of NHC-protected copper(I) clusters through substitution for photoluminescence enhancement

Yan-Yan Yang, Rui-Chen Hao, Qing-Qing Wu, Peng Luo,* Jun Xu,* Xi-Yan Dong* and Chuan-Xiang Zhang

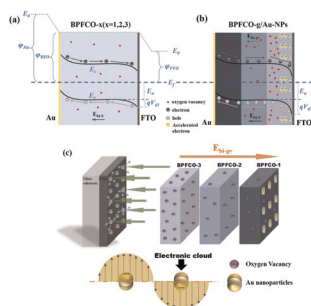
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Steady Cu⁺ species via magnesium and boron co-modification for enhanced CO₂ electroreduction to C₂₊ products: an *in situ* Raman spectroscopic study

Hua Yang, Xuefan Mu, Jiexin Guan, Bo Ouyang, Huaming Li and Yilin Deng*

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Multiple strategies to greatly enhance the photovoltaic characteristics of BiFeO₃-based films

Zehao Sun, Jie Wei,* Shigeng Song, Minchuan Xiahou, Ao Cao, Junlong Zhang, Youxin Yuanfeng, Guogang Chen and Yongqiang Chen

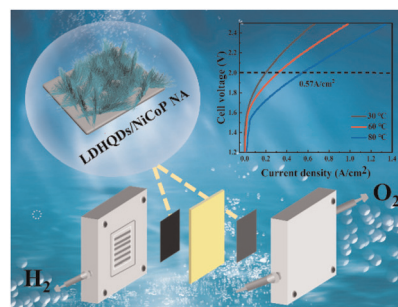


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Novel NiCoP nanoarray modified by NiFeCo layered double hydroxide quantum dots as highly efficient bifunctional electrocatalysts in anion exchange membrane water electrolysis

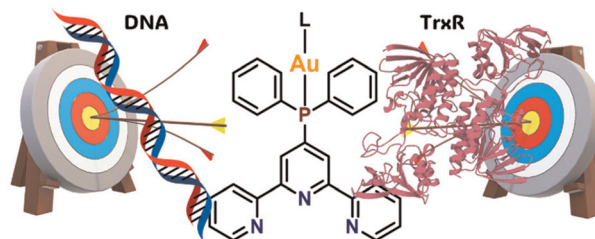
Lina Li, Shuang Liu, Tao Yang,* Linlin Zhou, Kang Wang, Enhui Wang, Xiangtao Yu, Kuo-Chih Chou, Rui Guo, Zhen Ma and Xinmei Hou*



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A dual approach to cancer treatment: gold(I) terpyridine derivatives as DNA binders and inhibitors of mammalian thioredoxin reductase

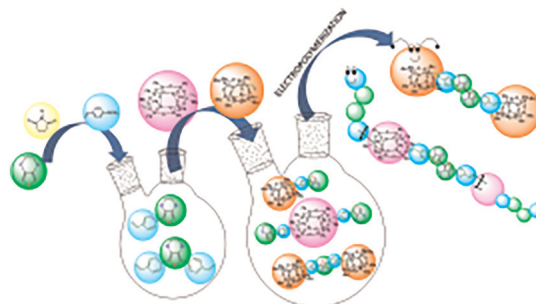
María Gil-Moles, M. Elena Olmos, José M. López-de-Luzuriaga,* Ingo Ott* and M. Concepción Gimeno*



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New EDOT–SQ systems for electrochromic applications

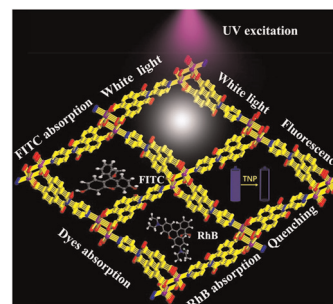
Aleksandra Mermela, Monika Wałęsa-Chorab, Monika Ludwiczak and Patrycja Żak*



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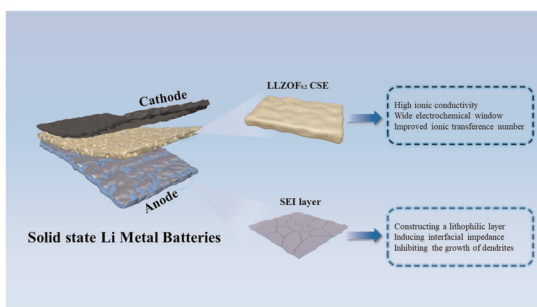
Single-component rare-earth-free white light-emitting metal–organic framework towards nitroaromatic explosive sensing and dye adsorption

Yan-Wu Zhao, Bin Xue, Nan Zhang, Li-E Guo, Sheng-Yan Zhu and Xian-Ming Zhang*



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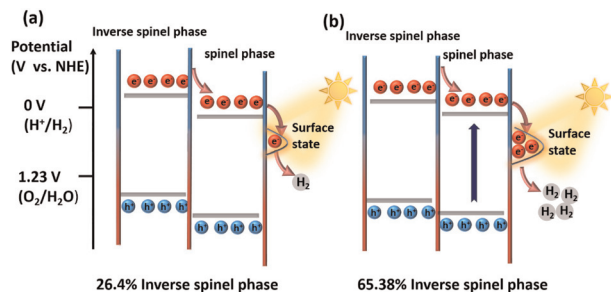
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Dendrite-free solid-state lithium batteries enabled by a fluorine doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ composite electrolyte and LiAlF_4 interphase

Yuezhen Mao, Fanghui Mi, Tianyuan Wang, Zhijun Zhang and Chunwen Sun*

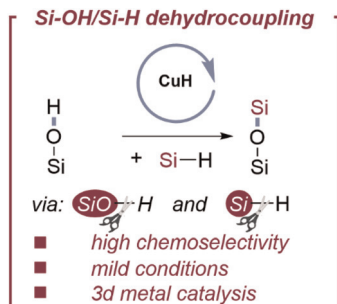
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Controllable phase transition dependent photoinduced charge separation in CuFe_2O_4 for photocatalytic hydrogen evolution

Dongfen Hou, Jingqi Tian, Jingying Wei, Dailing Jia, Ke Ma, Huaiguo Xue and Tengfei Jiang*

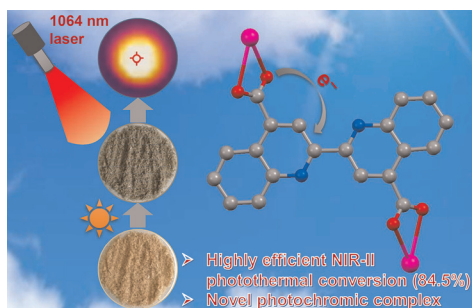
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Copper-driven formation of siloxanes via dehydrocoupling between hydrosilanes and silanols

Martyna Markwitz, Kacper Łyczek, Qingqing Bu and Krzysztof Kuciński*

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Highly efficient NIR-II photothermal conversion from a 2,2'-biquinoline-4,4'-dicarboxylate-based photochromic complex

Ning-Ning Zhang, Ya-Tong Liu, Li Li, Xiang-Tong Liu, Ke Xu, Zhen-Yu Li and Yong Yan*



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Bimetallic ZnCo-MOF derived porous Ir-doped cobalt oxides for water oxidation with improved activity and stability

Junliang Chen, Jie Liu, Shaojie Xu, Yi Wu, Yunan Ye and Jinjie Qian*

