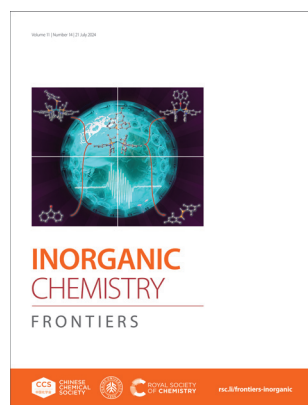


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See Laurent Maron, Stephan Hohloch *et al.*, pp. 4158–4166.

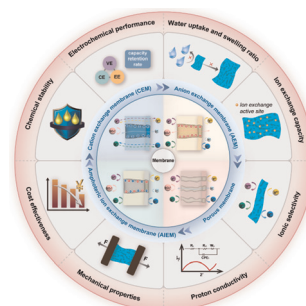
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Research progress on optimized membranes for vanadium redox flow batteries

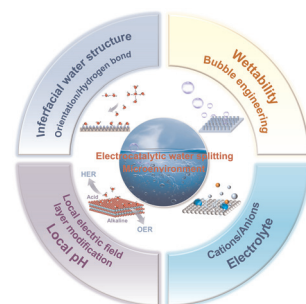
Yang Yang, Quge Wang, Shizhao Xiong* and Zhongxiao Song*



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Rational design of local microenvironment for electrocatalytic water splitting

Xiang Li, Wangchuan Zhu, Yanqun Zhang, Yueyue Zhao, Danjun Wang, Yanzhong Zhen, Feng Fu and Chunming Yang*



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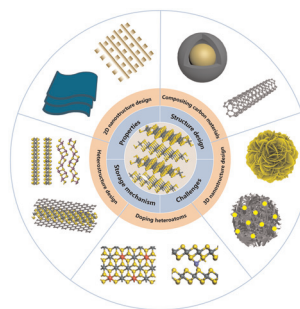
Fundamental questions
Elemental answers

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Recent advances in SnS₂-based nanomaterials as high-performance anodes for sodium ion batteries

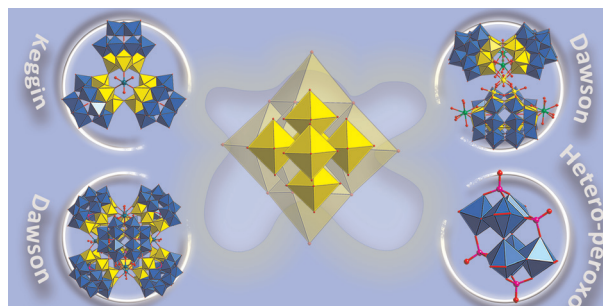
Mingjun Xiao,* Dongming Qi, Huizhen Sun, Yanshuang Meng and Fuliang Zhu



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Haiying Wang, Zhijie Liang, Dongdi Zhang* and Jingyang Niu*

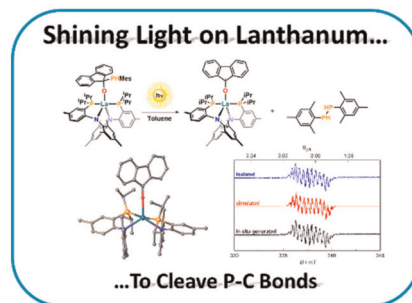


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Light-induced splitting of P–C bonds in a lanthanum(III) hemiphosphinal complex

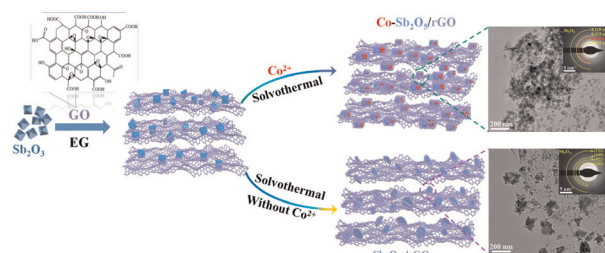
Benjamin Wittwer, Karl N. McCabe, Daniel Leitner, Michael Seidl, Laurent Maron* and Stephan Hohloch*



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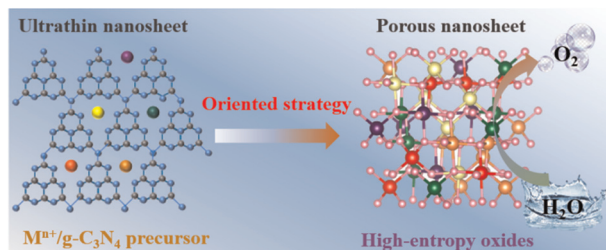
Uniformly anchoring Sb₂O₅ nanoparticles on graphene sheets via Co²⁺-induced deposition for enhanced lithium/sodium-ion storage

Xiaozhong Zhou,* Aixia Wang, Xiaoyan Zheng, Dongfei Sun and Yaoxia Yang



RESEARCH ARTICLES

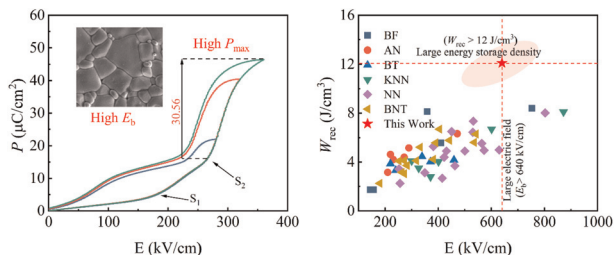
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Porous high-entropy oxide nanosheets as highly-efficient electrocatalysts for water oxidation

Ting Huang, Cui Gao, Yun Tong* and Xiuli Lu*

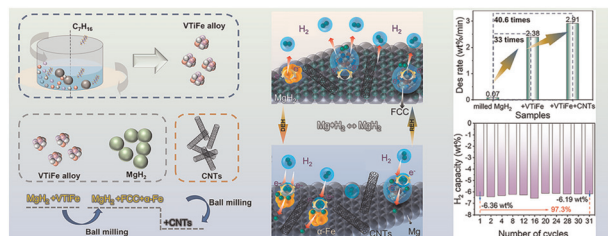
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Enhanced energy storage capabilities in $PbHfO_3$ -based antiferroelectric ceramics through delayed phase switching and induced multiphase transitions

Jiawen Hu, Zhongbin Pan,* Ling Lv, Zhixin Zhou, Xiqi Chen, Hongzhen Xie,* Jinjun Liu, Peng Li and Jiwei Zhai*

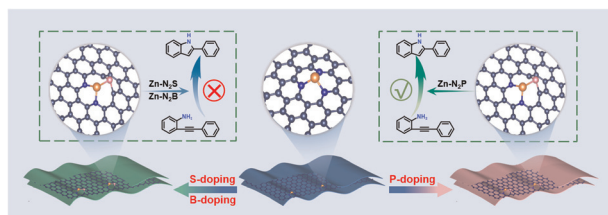
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FCC/ α -Fe biphasic nano-sites synergize with CNTs to enhance reversible hydrogen storage of MgH_2

Haiyi Wan, Junqi Qiu, Haotian Guan, Zhao Ding,* Yangfan Lu, Yu'an Chen,* Jingfeng Wang and Fusheng Pan

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Regulating the coordination microenvironment of zinc single-atom catalysts to enhance intramolecular hydroamination performance

Li Wang, Chao Lv, Kecan Dou, Deqiong Xie, Yanghe Fu, Fumin Zhang,* De-Li Chen* and Weidong Zhu*

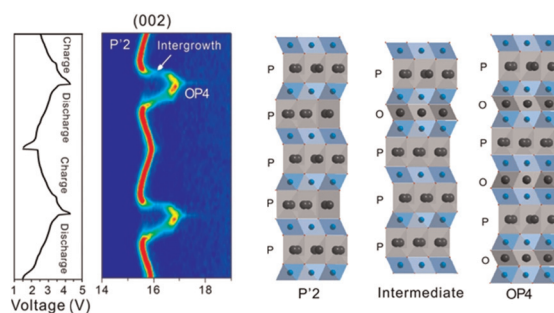


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Using a dual-site substitution strategy to inhibit staircase-like electrochemical profiles for high-performance Na-ion battery cathodes

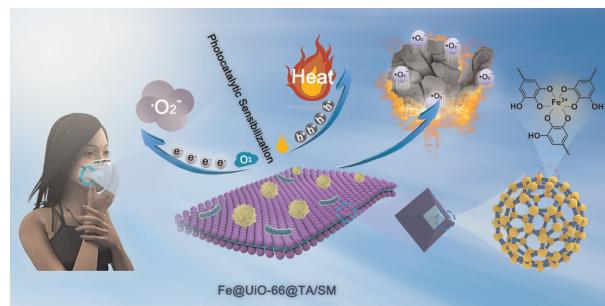
Kun Luo,* Wenhui Li, Yang Jiang and Houze Song



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A sunlight sensitive metal–organic framework film for the environment-friendly self-sterilization application

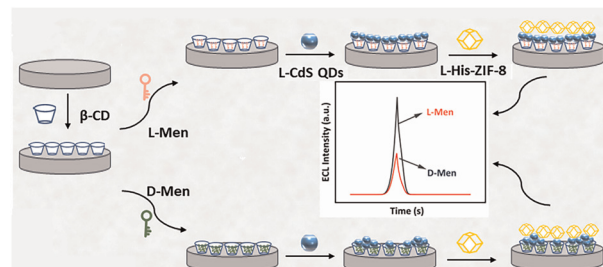
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The potential of an MOF accelerator in an electrochemiluminescence system for sensitive detection of menthol enantiomers

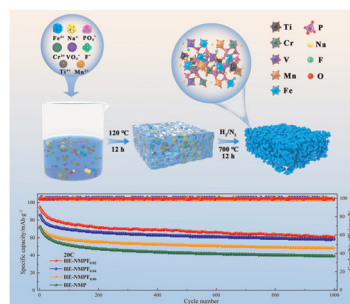
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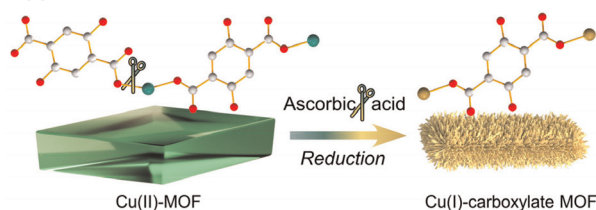
Design of fluorine-substituted high-entropy phosphates as cathode materials towards high-performance Na-ion batteries

Qi Wang, Man Zhao, Hai-tao Yu, Ying Xie* and Ting-Feng Yi*



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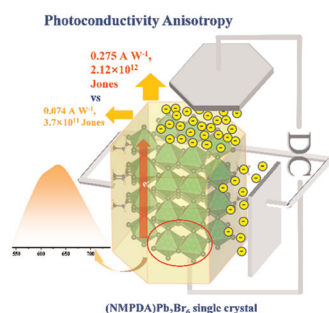
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Fabrication of a Cu(I)-carboxylate metal–organic framework by reduction of metal nodes for an azide–alkyne “click” reaction

Xiaojiao Hou, Wenxiu He, Xu Zhai, Bingbing Chen, Yuanlin Fu, Liying Zhang, Junyi Chen* and Yu Fu*

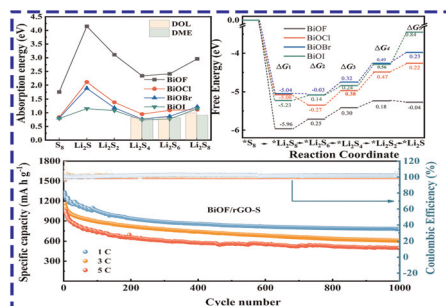
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Methylated diammonium spacer modulated three-dimensional lead bromide perovskitoid hybrids with distinct photoconductivity anisotropy

Sheng Cao, Kuan Kuang, Biqi He, Junjie Tang, Zixian Yu, Mingkai Li,* Yunbin He* and Junnian Chen*

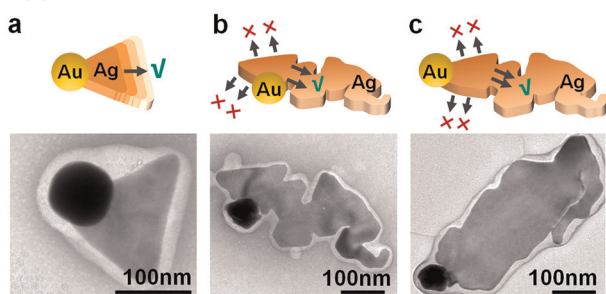
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Boosting the electrocatalytic activity of 2D ultrathin BiOX/rGO (X = F, Cl, Br, and I) nanosheets as sulfur hosts: insight into the electronegativity effect of halogenated elements on the electrochemical performances of lithium–sulfur batteries

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Two-dimensional active surface growth of Ag nanoplates

Jin Ji, Zijie Chen, Tingting Jiang, Yuhua Feng* and Hongyu Chen*

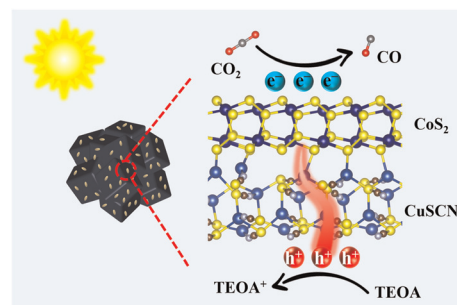


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One-pot molten-salt construction of channels for hole transport and mass transfer over CoS_2 nanocubes for visible-light-driven CO_2 reduction

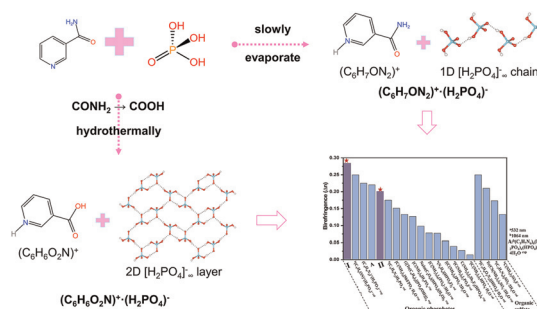
Fulin Wang, Man Zhou, Weiya Huang, Kangqiang Lu, Shaobo Ouyang, Wentao Xiang, Chensheng Zhou, Changlin Yu* and Kai Yang*



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Designing promising ultraviolet (UV) birefringent crystals with different hydrogen-bonded phosphate frameworks

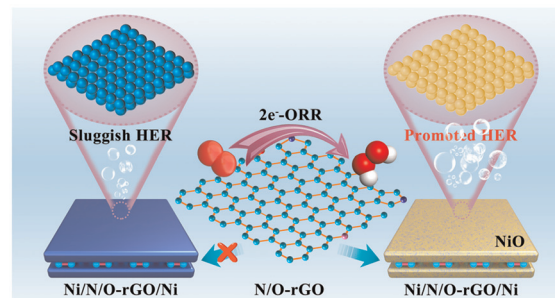
Miao-Bin Xu, Jin Chen,* Huai-Yu Wu, Jia-Jia Li, Ning Yu, Mo-Fan Zhuo, Fei-Fei Mao* and Ke-Zhao Du



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Enhancing acidic hydrogen evolution through pyrrolic nitrogen-doped reduced graphene oxide triggering two-electron oxygen reduction

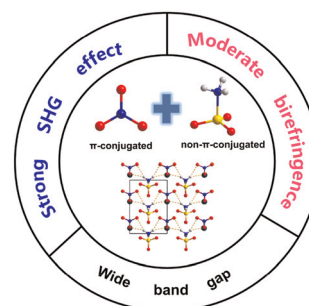
Zhiqiang Hou, Hui Jiang, Yanru Guo, Kejing Huang,* Fei Zhao, Yongyan Xu, Peng Peng, Shiyu Zou,* Jianjun Yan and Junjun Zhang*



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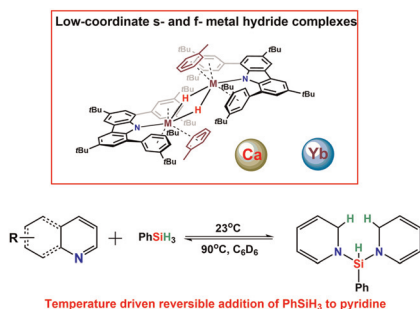
Synergistic combination of different types of functional motif in $\text{Rb}(\text{NO}_3)(\text{SO}_3\text{NH}_2)$ for realizing excellent ultraviolet optical nonlinearity

Yunxia Song, Chensheng Lin, Xin Zhao, Tao Yan, Ning Ye, Haotian Tian* and Min Luo*



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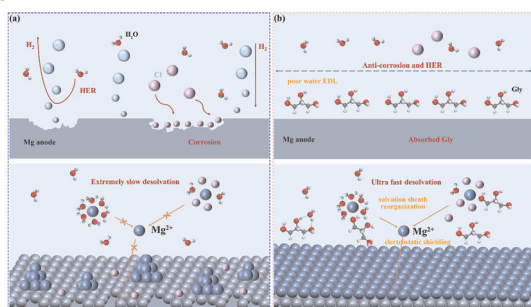
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Reversible hydrosilane addition to pyridines enabled by low-coordinate Ca(II) and Yb(II) hydrides

Alexander N. Selikhov, Mikhail A. Bogachev, Yulia V. Nelyubina, Grigory Yu. Zhigulin, Sergey Yu. Ketkov and Alexander A. Trifonov*

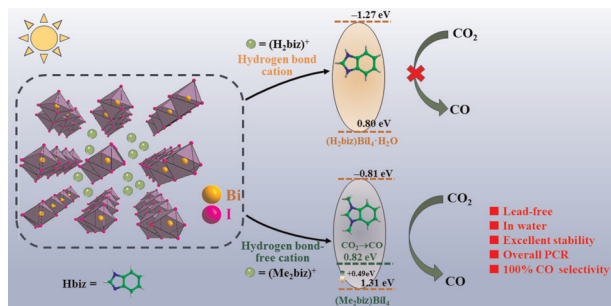
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Utilizing an electrolyte additive to modulate interfaces and enhance anode discharge performance in aqueous magnesium–air batteries

Sha Jianchun, Li Xue, Liu Zhoulin, Bao Jiaxin, Li Lianhui, Tian Jie, Yang Yiqiang, Chen Weilong, Liu Wenhong and Zhang Zhiqiang*

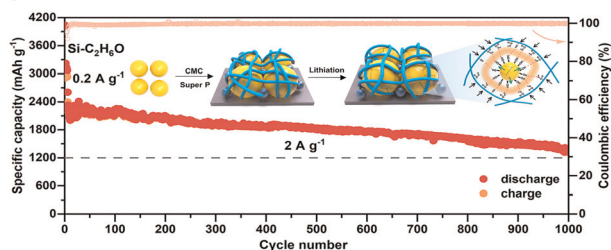
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Band edge modulation via a hydrogen-bond-free cation in hybrid bismuth iodide for overall photocatalytic CO_2 reduction

Guang-Ning Liu,* Cheng-Cheng Gao, Fangzheng Qi, Wen-Tong Chen, Ning-Ning Zhang, Yiqiang Sun,* Huaiqing Zhao, Guozhu Chen and Cuncheng Li*

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Dynamic mechanical equilibrium of silicon anodes for lithium-ion batteries enabled by surface hydroxyl-rich bonding

Fangfang Zhao, Bowen Tao, Liming Yu, Cong Pan,* Lei Ma, Liangming Wei,* Gen Tang, Yue Wang and Xiang Guo*

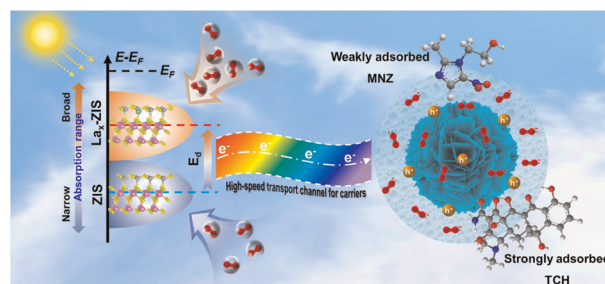


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Tailoring the d-band center enables La doped ZnIn₂S₄ to be active for boosting photocatalytic activation of oxygen and degradation of antibiotics in wastewater

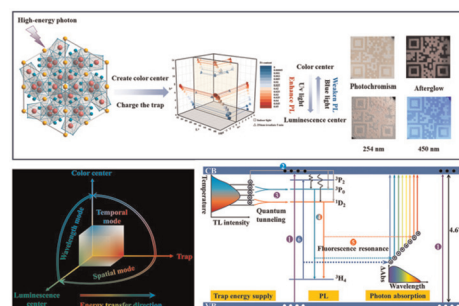
Yiwen Hu, Xiao Ma, Guoli Fan,* Lan Yang and Feng Li*



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Manipulating photon absorption and trap energy supply for multimode dynamic anti-counterfeiting

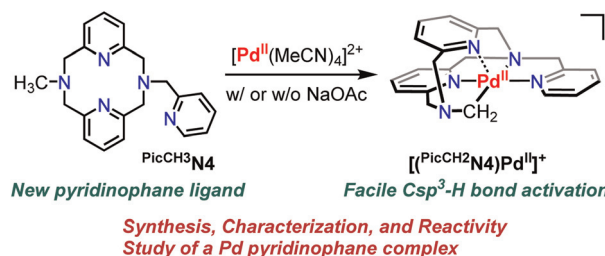
Zhihao Zhang, Huimin Li,* Ran Pang, Da Li, Lihong Jiang, Su Zhang* and Hongjie Zhang



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Csp³-H bond activation mediated by a Pd(II) complex under mild conditions

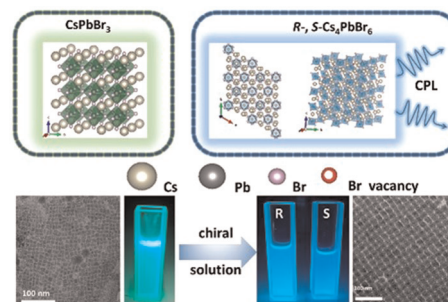
Hanah Na, Andrew J. Wessel, Seoung-Tae Kim, Mu-Hyun Baik* and Liviu M. Mirica*



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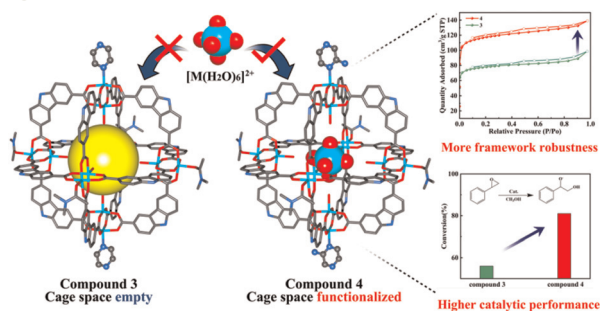
Chiral defect-induced blue photoluminescence and circularly polarized luminescence of zero-dimensional Cs₄PbBr₆ perovskite nanocrystals

Jiaqi Zhao, Yuan Wang, Tinglei Wang and Yu Wang*



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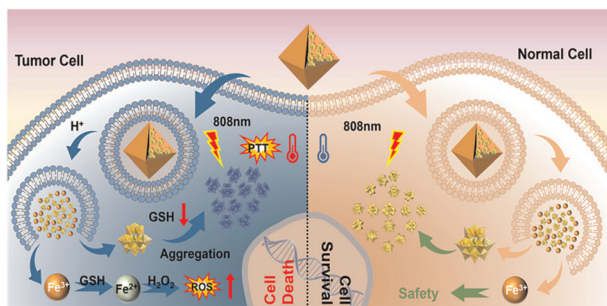
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Metal ion attachment in cavities of metal organic polyhedra to enhance framework robustness and catalytic performance

Mengyu Zhu, Hang Chen, Hairong Li, Hao Zhang, Lizhen Liu, Qichen Hong, Zizhu Yao,* Lihua Wang* and Zhangjing Zhang*

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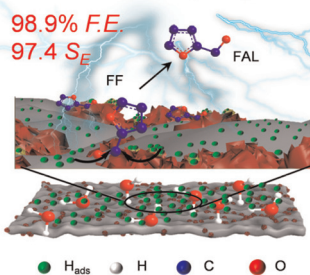


GSH/pH dual-activated POM@MOF for tumor cell-specific synergistic photothermal and chemodynamic therapy

Bole Li, Zhujun Wu, Xiaotong Xu, Yanfei Lv, Yunfei Guo, Siyu Liang, Zhimin Wang,* Lei He* and Yu-Fei Song*

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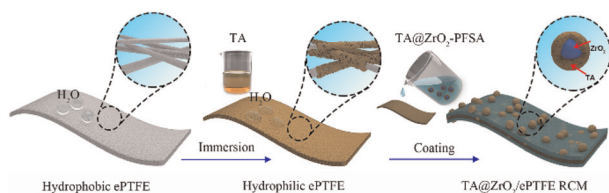
Electrocatalytic Hydrogenation



Electrochemical hydrogenation of furfural under alkaline conditions with enhanced furfuryl alcohol selectivity by self-grown Cu on a Ag electrode

Huiming Wen, Ziyi Fan, Shuo Dou, Jason Chun-Ho Lam, Wenjun Zhang* and Zupeng Chen*

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A composite proton exchange membrane with a three-dimensionally-reinforced hydrogen bonding network for durable hydrogen fuel cells

Yunfa Dong, Chao Feng, Haodong Xie, Yuhui He, Carlos M. Costa, Senentxu Lanceros-Méndez, Jiecai Han and Weidong He*

