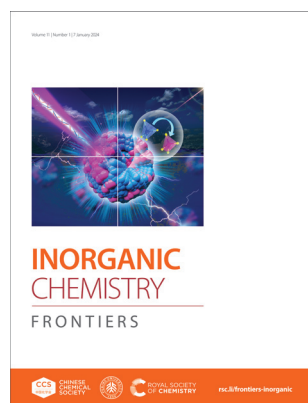


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See Xiao-Song Zhang *et al.*, pp. 71–84.

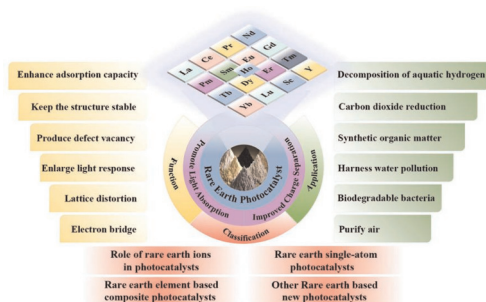
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The multiple roles of rare earth elements in the field of photocatalysis

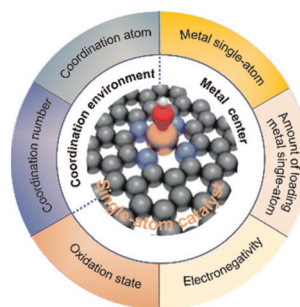
Jing An, Yang Qu* and Guofeng Wang*



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Local structural environment of single-atom catalysts

Zheng Chen and Lili Han*



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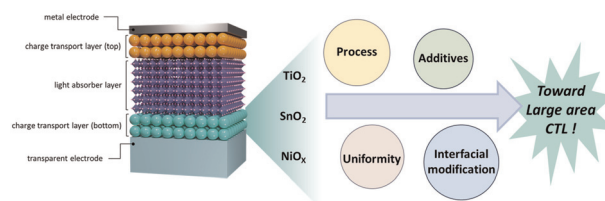
Fundamental questions
Elemental answers

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Towards scalability: progress in metal oxide charge transport layers for large-area perovskite solar cells

Seongmin Choi, Taeyeong Yong and Jongmin Choi*

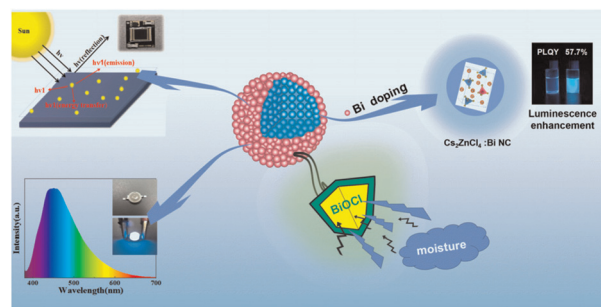


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Enhancing broadband blue luminescence efficiency and stability in Bi³⁺-doped Cs₂ZnCl₄ nanocrystals from STEs and advancing energy applications

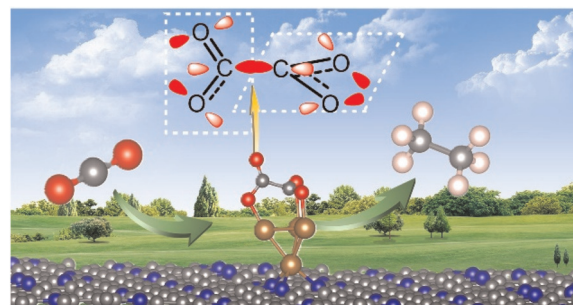
Xing-Yao Zhao, Xiao-Song Zhang,* Xiao-Kai Gong, Xiu-Rong Yuan, Min-Xing Chen, Shu-Wei Huang, Bao-zeng Zhou, Jian-Ping Xu and Lan Li



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Direct coupling of two inert CO₂ molecules to form a C–C bond on the Cu⁰ atomic interfaces of the nitrogen-doped graphene-supported Cu₄ cluster

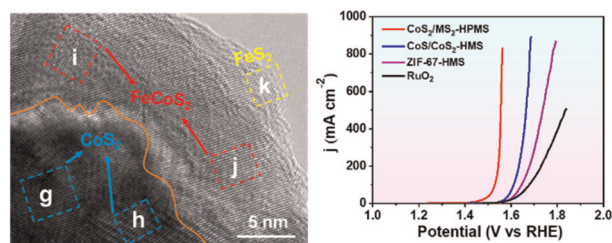
Xin-Jia Cui, Yong-Qing Qiu, Hong-Qiang Wang and Chun-Guang Liu*



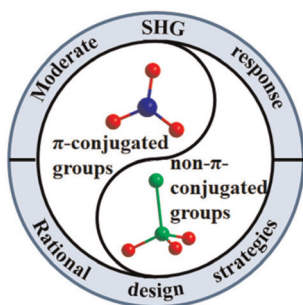
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Heterogeneous CoS₂/MS₂ microspheres for an efficient oxygen evolution reaction

Xiaoqu Wang, Limin Wang, Karuppasamy Kohila Rani, Xinglan Peng, Yu Ning, Xiaotian Liu, Youjun Fan,* Du-Hong Chen* and Wei Chen*



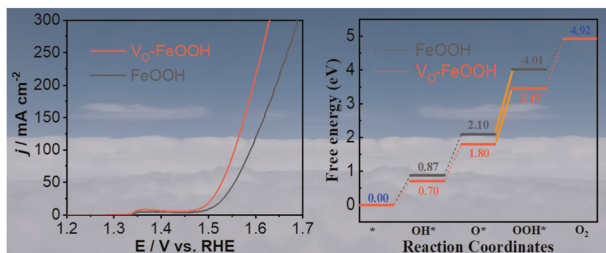
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$\text{Na}_{10}\text{Zn}(\text{NO}_3)_4(\text{SO}_3\text{S})_4$: a nonlinear optical crystal combining inorganic π -conjugated and non- π -conjugated heteroanion groups

Zihao Yu, Qingran Ding,* Yuhang Jiang, Weiqi Huang, Changsheng Yang, Sangen Zhao and Junhua Luo*

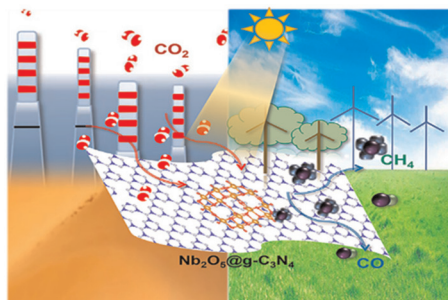
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Oxygen defect engineering on low-crystalline iron(III) oxyhydroxide as a highly efficient electrocatalyst for water oxidation

Yaning Fan, Junjun Zhang,* Kongliang Luo, Xuanyu Zhou, Jiahua Zhao, Weiwei Bao, Hui Su, Nailiang Wang,* Pengfei Zhang and Zhenghong Luo

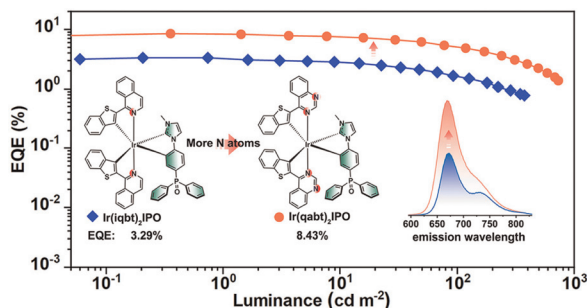
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Efficient $\text{Nb}_2\text{O}_5@\text{g-C}_3\text{N}_4$ heterostructures for enhanced photocatalytic CO_2 reduction with highly selective conversion to CH_4

Xiaofeng Wang, Jingwen Jiang, Lilian Wang and Hong Guo*

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Li-Li Wen, Jia-Ming Zhang, Yi-Ping Han, Ying-Chen Duan,* Wen-Fa Xie,* Kui-Zhan Shao, Guo-Gang Shan* and Zhong-Min Su

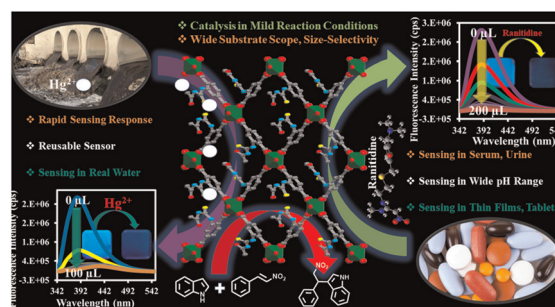


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A recyclable MOF@polymer thin film composite for nanomolar on-site fluorometric detection of heavy metal ion and anti-histamine drug and efficient heterogeneous catalysis of Friedel–Crafts alkylation

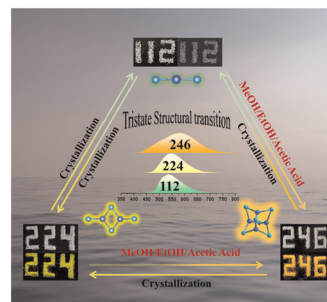
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Reversible tri-state structural transitions of hybrid copper(I) bromides toward tunable multiple emissions

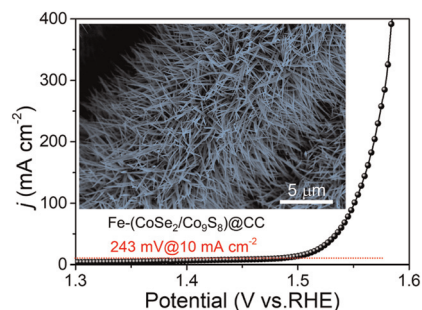
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Fe doping and interface engineering-induced dual electronic regulation of CoSe₂/Co₉S₈ nanorod arrays for enhanced electrochemical oxygen evolution

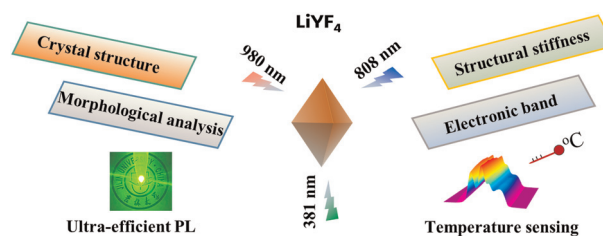
Guangyao Zhou,* Chao Wei, Zhijuan Li,* Bin He, Zhenyuan Liu and Jing Li



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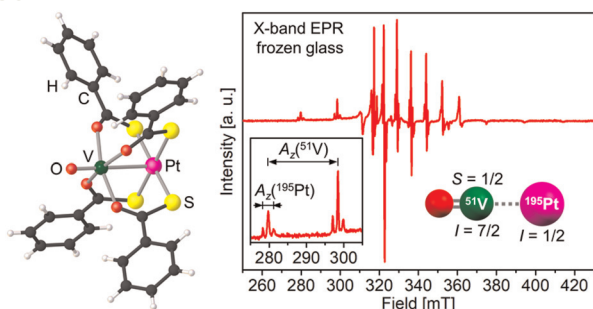
A latest-generation fluoride with excellent structural stiffness for ultra-efficient photoluminescence and specific four-peak emission temperature sensing

Kejie Li, Mengmeng Dai, Zuoling Fu,* Zhiying Wang, Hanyu Xu and Rong Wang



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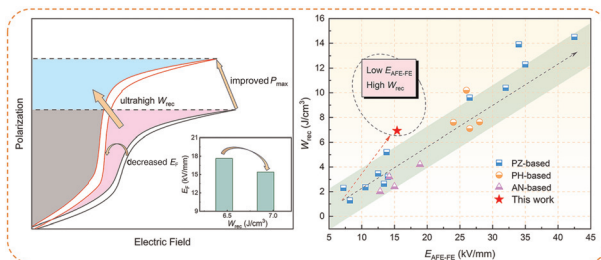
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Quantum spin coherence and electron spin distribution channels in vanadyl-containing lantern complexes

Manuel Imperato, Alessio Nicolini, Marco Borsari, Matteo Briganti, Mario Chiesa, Yu-Kai Liao, Antonio Ranieri, Arsen Raza, Enrico Salvadori, Lorenzo Sorace and Andrea Cornia*

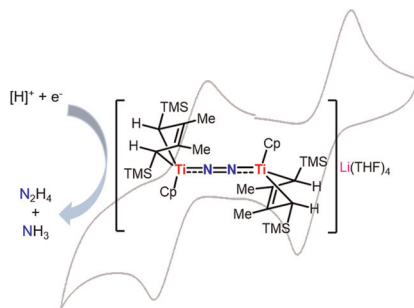
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Improving energy storage properties of PbHfO₃-based antiferroelectric ceramics with lower phase transition fields

Yan Li, Tongqing Yang* and Xiaohui Liu

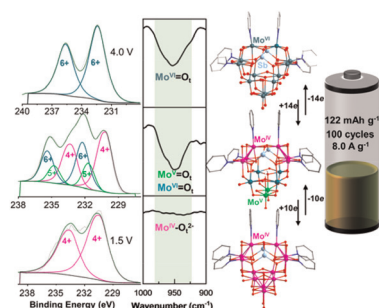
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Xianghui Shi, Yongliang Zhang, Mingdong Zhong, Rui Feng, Yuanjin Chen, Lei Yu, Yue Wu, Junnian Wei* and Zhenfeng Xi

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14-electron reduced Mo₆^{IV}- ϵ -Keggin polyoxometalates: highly stable and reversible electron/Li⁺ sponge materials

Jie Zi, Meng Cao, Fang Yu, Cuiming Ren, Ruili Sang and Li Xu*

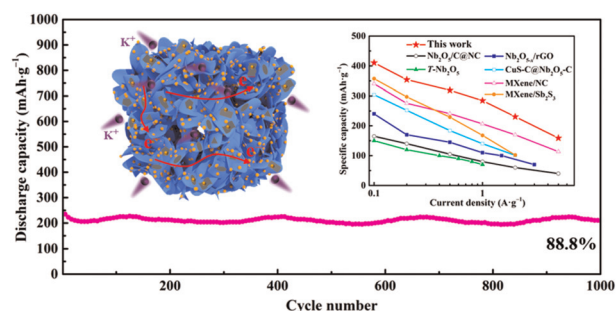


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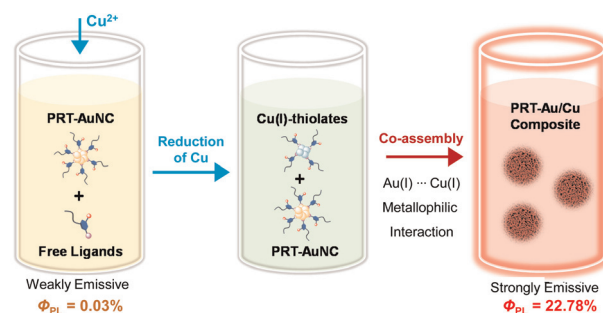
Cong Liu, Zhitang Fang, Weizhi Kou, Xiaoge Li, Jinhua Zhou, Gang Yang, Luming Peng, Xuefeng Guo, Weiping Ding and Wenhua Hou*



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A cooperative effect of copper-induction and AIE leading to bright luminescence of gold nanoclusters

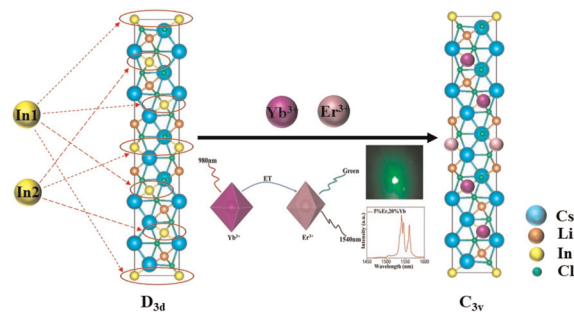
Yongjie Zhang,* Luyao Feng, Jingyan Luan, Guomei Zhang, Ning Sheng and Jinglin Shen*



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Revealing the role of a unique local structure in lanthanide-doped Cs₂LiInCl₆ in boosting visible and NIR-II luminescence

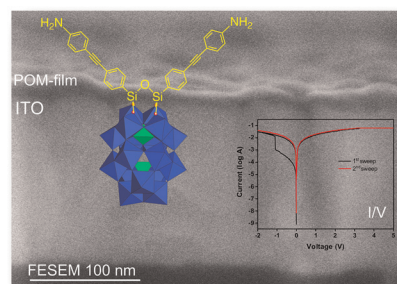
Qiudong Duan, Yusheng Xu, Ruijing Yang, Dongfeng Hong, Dacheng Zhou, Qi Wang, Yong Yang, Jin Han, Yugeng Wen* and Jianbei Qiu*



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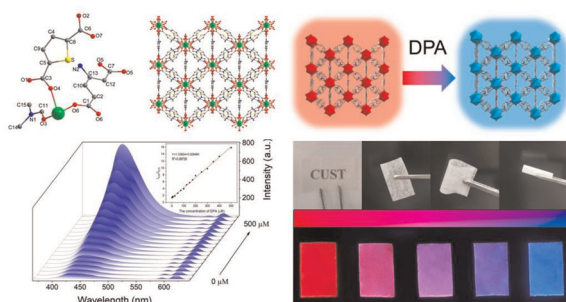
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Raphaël Salles, Wei Church Poh, Maxime Laurans, Florence Volatron, Antoine Miche, Sandra Alves, Christian Carino, Ludovic Torteche, Guillaume Izzet, Pooi See Lee* and Anna Proust*



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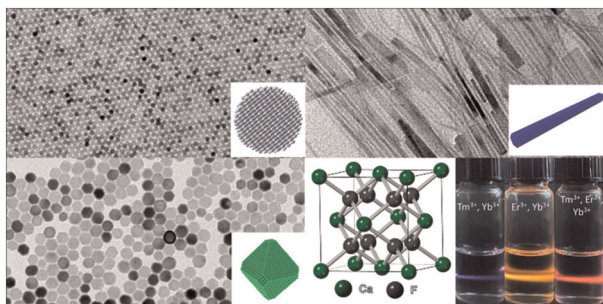
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Eu³⁺-MOF fluorescence sensor based on a dual-ligand strategy for visualised detection of an anthrax biomarker 2,6-pyridine dicarboxylic acid

Runnan Wang, Hao Zhang, Jing Sun* and Zhongmin Su*

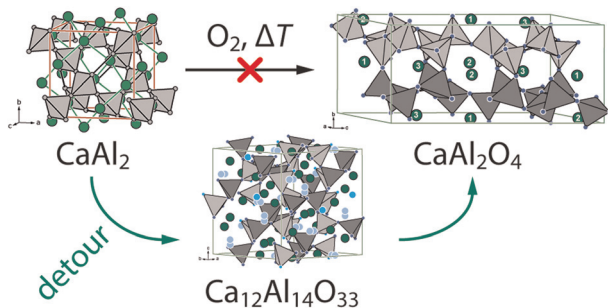
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Shape-controlled synthesis and self-assembly of highly uniform upconverting calcium fluoride nanocrystals

Taejong Paik,* Nicholas J. Greybush, Stan Najmr, Ho Young Woo, Seong Vin Hong, Seung Hyeon Kim, Jennifer D. Lee, Cherie R. Kagan and Christopher B. Murray*

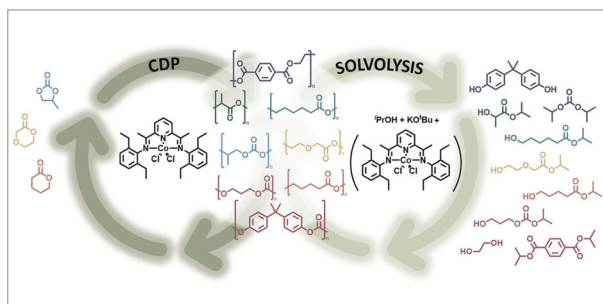
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Mechanistic studies on the formation of ternary oxides by thermal oxidation of the cubic laves phase CaAl₂

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Divergent methods for polyester and polycarbonate depolymerization with a cobalt catalyst

Kai D. Knight and Megan E. Fieser*

