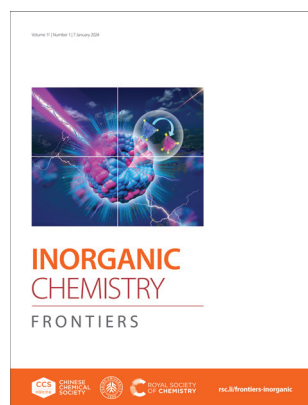


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See Xiao-Song Zhang *et al.*, pp. 71–84.

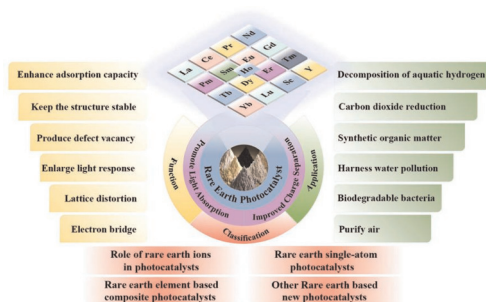
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The multiple roles of rare earth elements in the field of photocatalysis

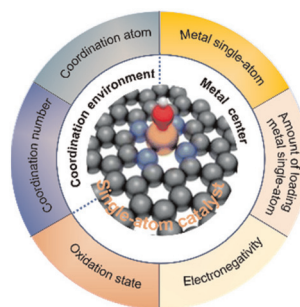
Jing An, Yang Qu* and Guofeng Wang*



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Local structural environment of single-atom catalysts

Zheng Chen and Lili Han*



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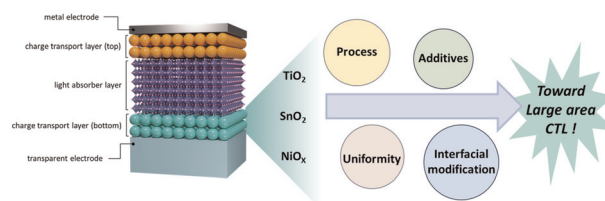
Fundamental questions
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Towards scalability: progress in metal oxide charge transport layers for large-area perovskite solar cells

Seongmin Choi, Taeyeong Yong and Jongmin Choi*

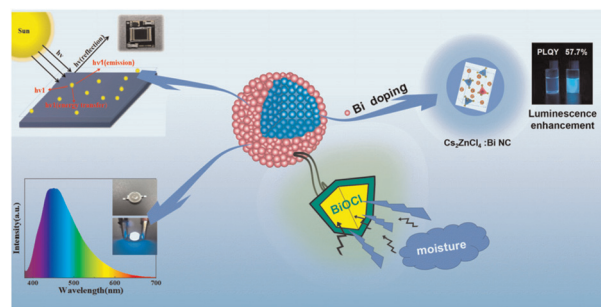


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Enhancing broadband blue luminescence efficiency and stability in Bi³⁺-doped Cs₂ZnCl₄ nanocrystals from STEs and advancing energy applications

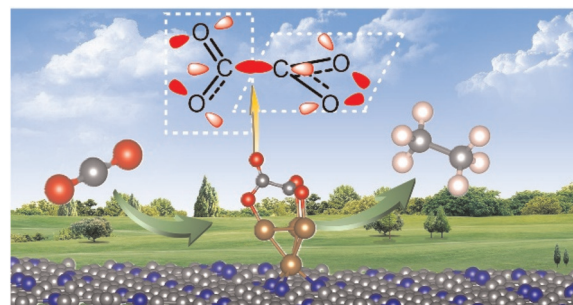
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Direct coupling of two inert CO₂ molecules to form a C–C bond on the Cu⁰ atomic interfaces of the nitrogen-doped graphene-supported Cu₄ cluster

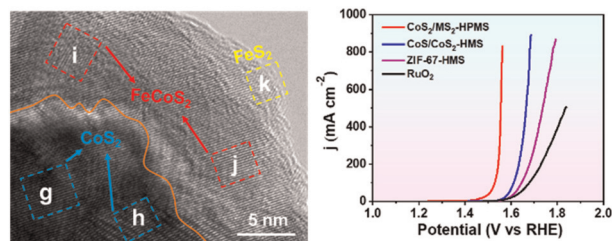
Xin-Jia Cui, Yong-Qing Qiu, Hong-Qiang Wang and Chun-Guang Liu*



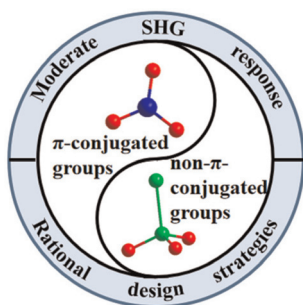
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Xiaoqu Wang, Limin Wang, Karuppasamy Kohila Rani, Xinglan Peng, Yu Ning, Xiaotian Liu, Youjun Fan,* Du-Hong Chen* and Wei Chen*



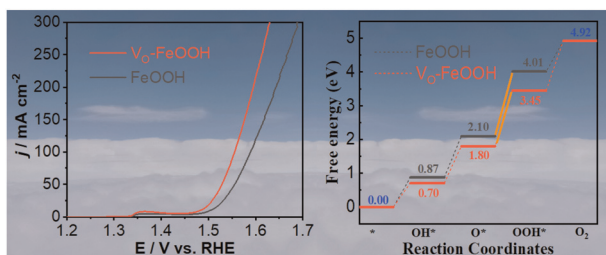
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$\text{Na}_{10}\text{Zn}(\text{NO}_3)_4(\text{SO}_3\text{S})_4$: a nonlinear optical crystal combining inorganic π -conjugated and non- π -conjugated heteroanion groups

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

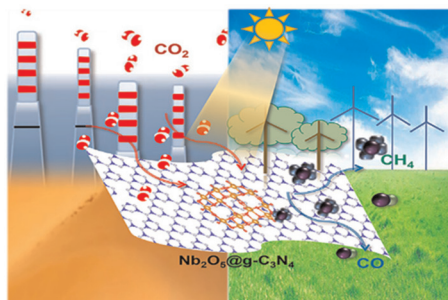
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Oxygen defect engineering on low-crystalline iron(III) oxyhydroxide as a highly efficient electrocatalyst for water oxidation

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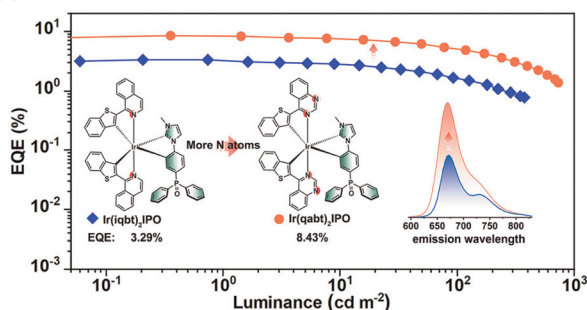
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Efficient $\text{Nb}_2\text{O}_5@g\text{-C}_3\text{N}_4$ heterostructures for enhanced photocatalytic CO_2 reduction with highly selective conversion to CH_4

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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

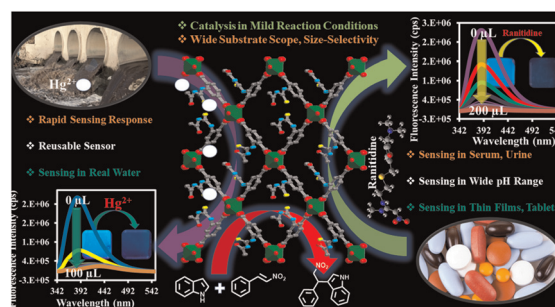


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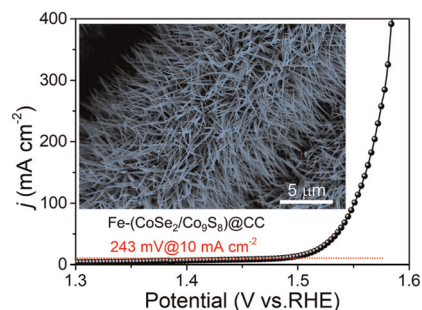
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Fe doping and interface engineering-induced dual electronic regulation of CoSe₂/Co₉S₈ nanorod arrays for enhanced electrochemical oxygen evolution

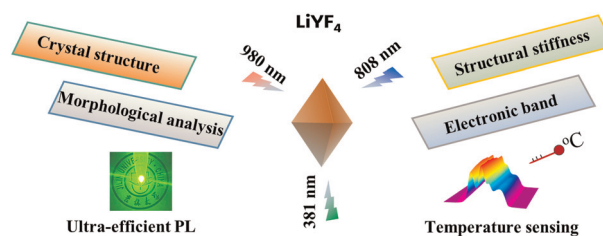
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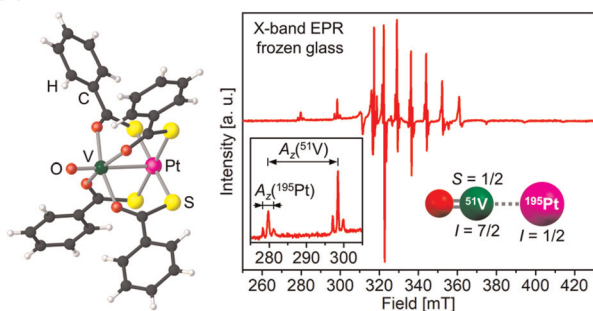
A latest-generation fluoride with excellent structural stiffness for ultra-efficient photoluminescence and specific four-peak emission temperature sensing

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



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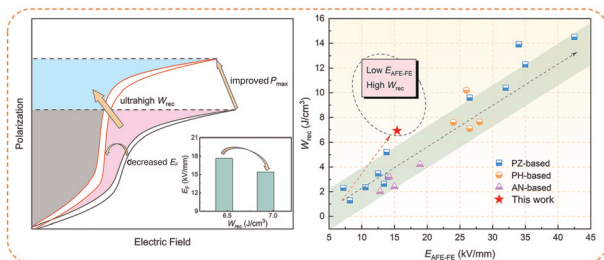
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Quantum spin coherence and electron spin distribution channels in vanadyl-containing lantern complexes

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

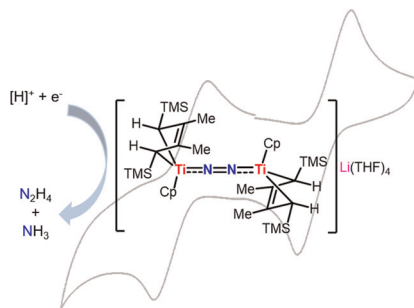
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Yan Li, Tongqing Yang* and Xiaohui Liu

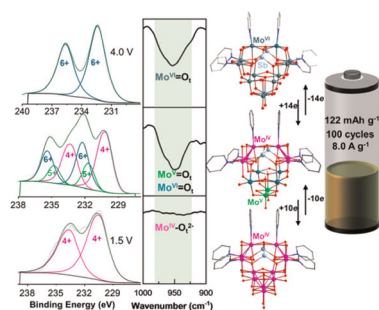
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Dinitrogen activation by a titanium hydride complex supported by 2-butene ligand

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*

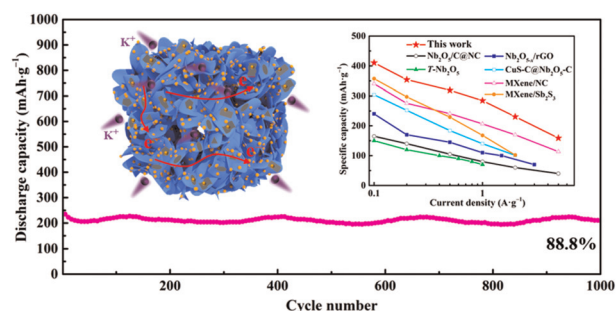


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***In situ* built nanoconfined Nb₂O₅ particles in a 3D interconnected Nb₂C MXene@rGO conductive framework for high-performance potassium-ion batteries**

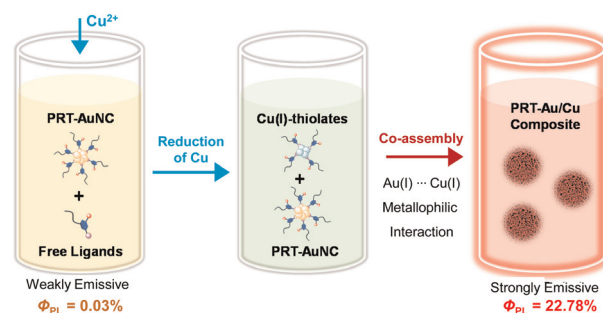
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A cooperative effect of copper-induction and AIE leading to bright luminescence of gold nanoclusters

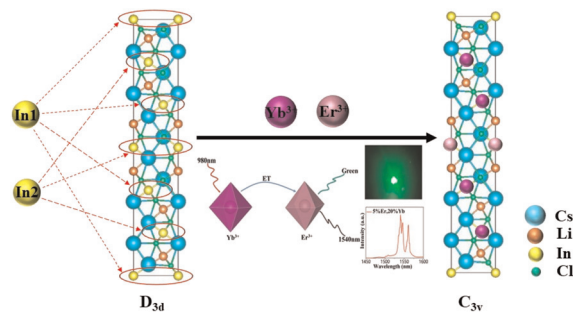
Yongjie Zhang,* Luyao Feng, Jingyan Luan, Guomei Zhang, Ning Sheng and Jinglin Shen*



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

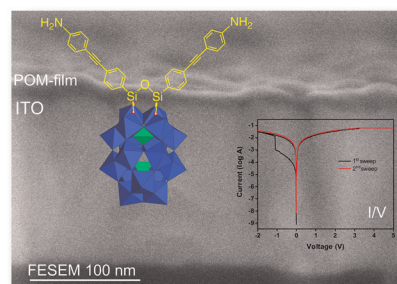
Qiudong Duan, Yusheng Xu, Ruijing Yang, Dongfeng Hong, Dacheng Zhou, Qi Wang, Yong Yang, Jin Han, Yugeng Wen* and Jianbei Qiu*



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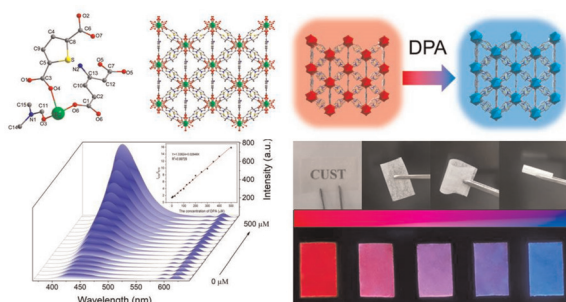
Covalent shaping of polyoxometalate molecular films onto ITO electrodes for charge trapping induced resistive switching

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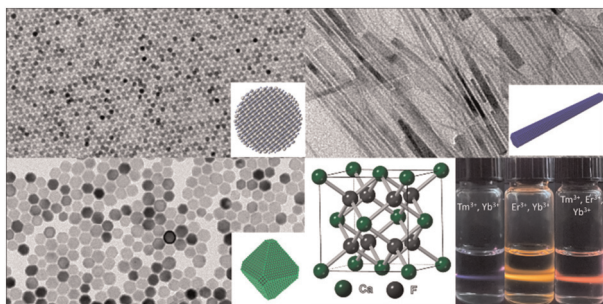
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Eu³⁺-MOF fluorescence sensor based on a dual-ligand strategy for visualised detection of an anthrax biomarker 2,6-pyridine dicarboxylic acid

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

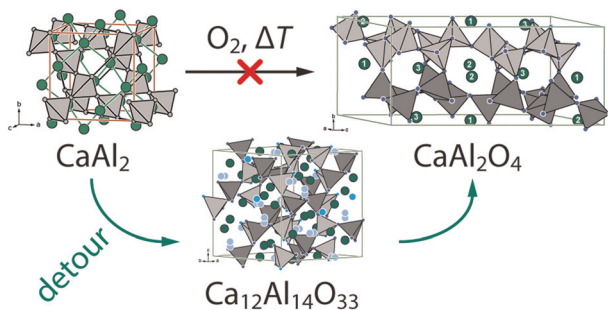
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Shape-controlled synthesis and self-assembly of highly uniform upconverting calcium fluoride nanocrystals

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*

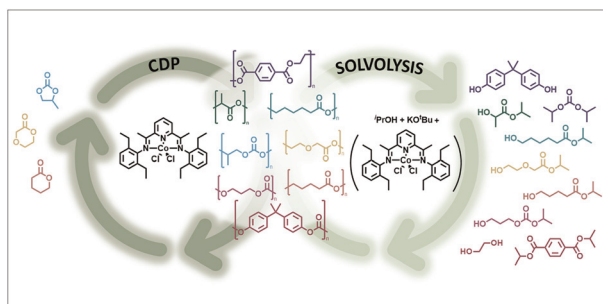
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Mechanistic studies on the formation of ternary oxides by thermal oxidation of the cubic laves phase CaAl₂

Elias C. J. Gießelmann, Stefan Engel, Johannes G. Volpini, Hubert Huppertz, Guido Kickelbick* and Oliver Janka*

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Kai D. Knight and Megan E. Fieser*

