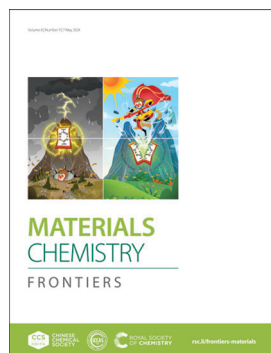


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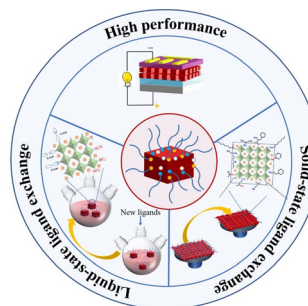
See Xiaogang Liu *et al.*, pp. 2135–2141. Image reproduced by permission of Xiaogang Liu from *Mater. Chem. Front.*, 2024, **8**, 2135.

REVIEWS

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Surface engineering in CsPbX₃ quantum dots: from materials to solar cells

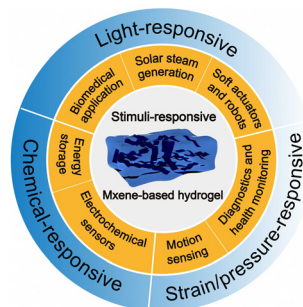
Yinyan Xu, Mei Lyu and Jun Zhu*



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Qi Gao, Ping-Ping He, Xiaowen Wang, Xiaoxue Du and Weiwei Guo*



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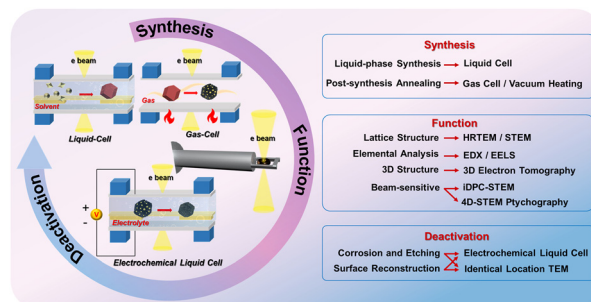


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Emerging transmission electron microscopy solutions for electrocatalysts: from synthesis to deactivation

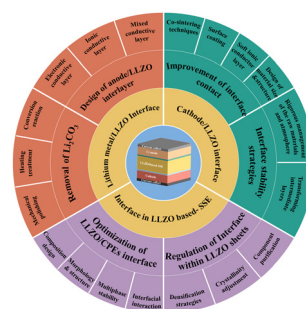
Le Wei, Zhanyong Xu, Xiaomei Wu, Xiaoxing Ke* and Manling Sui*



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Optimization strategies for key interfaces of LLZO-based solid-state lithium metal batteries

Jiangwei Chu, Ziwei Li, Jin Wang, Gang Huang* and Xinbo Zhang*

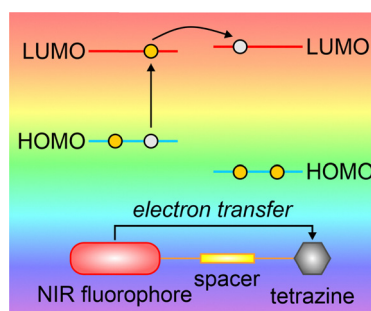


RESEARCH ARTICLES

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Photoinduced electron transfer endows fluorogenicity in tetrazine-based near-infrared labels

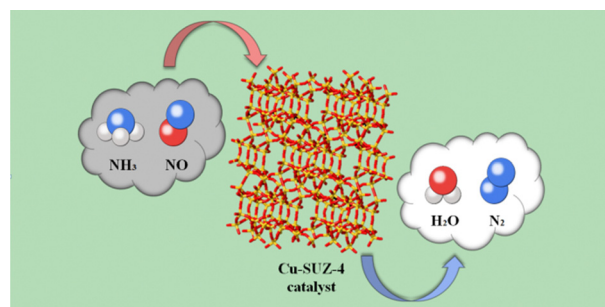
Tianruo Shen, Xin Li and Xiaogang Liu*



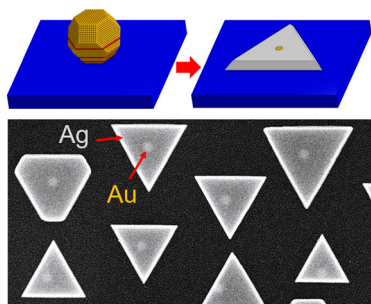
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Copper-exchanged SUZ-4 zeolite catalysts for selective catalytic reduction of NO_x

Yang Bai, Dapeng Hao, Yingzhen Wei, Jinfeng Han, Dan Li, Mengyang Chen* and Jihong Yu*



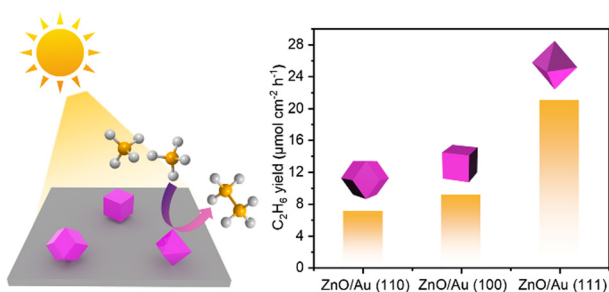
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Large-area arrays of epitaxially aligned silver nanotriangles seeded by gold nanostructures

Zachary R. Lawson, Kaikui Xu, Christina Boukouvala, Robert A. Hughes, Matthew R. Rosenberger, Emilie Ringe and Svetlana Neretina*

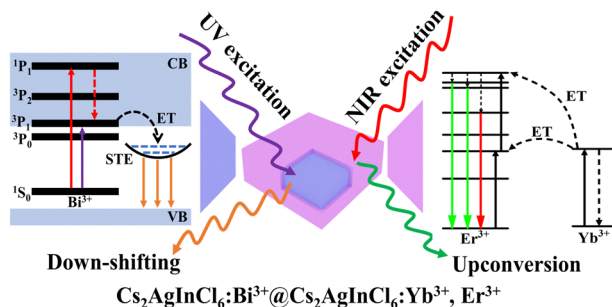
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Understanding Au facet effects in photocatalytic nonoxidative coupling of methane

Zhuo Liu, Biyang Xu, Xuanzhao Lu, Pan Li, Jun-Jie Zhu and Wenlei Zhu*

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Simultaneously excited downshifting/upconversion luminescence from lanthanide-doped core-shell lead-free perovskite nanocrystals for encryption and data storage

Endian Cui, Gaoyuan Xing, Xiangyang Yuan, Yi Zhang, Flavia Artizzu, Xiaoling Liao, Jianfeng Tang, Yanan Zhao, Pengzhou Zhao, Kai Liu* and Jing Liu*

