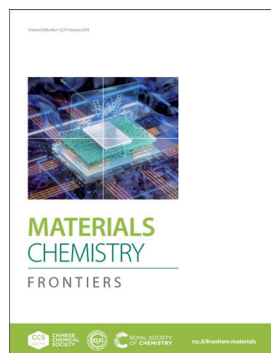


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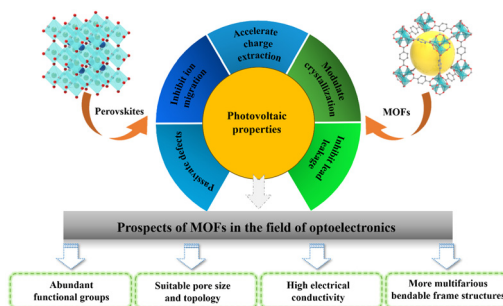
See Yang Wang *et al.*, pp. 1101-1111. Image reproduced by permission of Yang Wang from *Mater. Chem. Front.*, 2024, 8, 1101.

REVIEWS

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Applications of multifunctional metal-organic frameworks in perovskite photovoltaics: roles, advantages and prospects

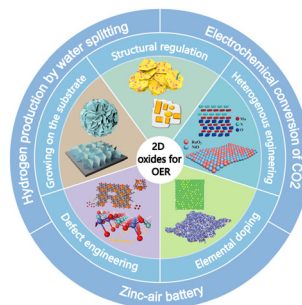
Ming-Wu Liu, Gengling Liu, Yu-Fen Wang,* Bing-Xin Lei* and Wu-Qiang Wu*



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Two dimensional oxides for oxygen evolution reactions and related device applications

Ying Li, Yonggui Deng, Dongqing Liu, Qianqian Ji* and Xingke Cai*



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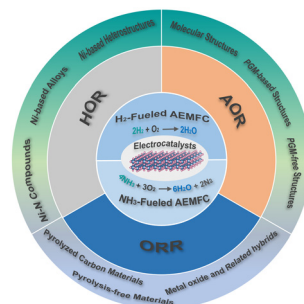
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REVIEWS

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Recent advances in metal-based electrocatalysts: from fundamentals and structural regulations to applications in anion-exchange membrane fuel cells

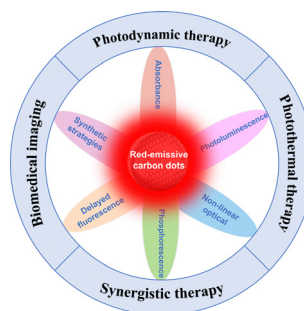
Ali Han and Gang Liu*



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Recent advances in red-emissive carbon dots and their biomedical applications

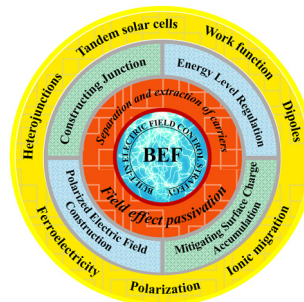
Weixia Qin, Meiyang Wang, Yan Li, Longchuan Li, Khurram Abbas, Zijian Li, Antonio Claudio Tedesco and Hong Bi*



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Reinforcing built-in electric field to enable efficient carrier extraction for high-performance perovskite solar cells

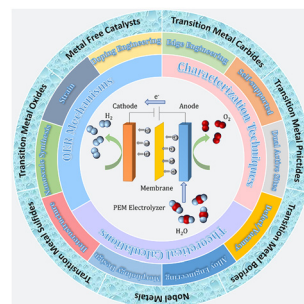
Jiahui Cheng, Huijie Cao, Shuming Zhang, Fang Yue* and Zhongmin Zhou*



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Recent progress and perspective for oxygen evolution reaction under acidic environments

Lianhua Chen, Yuting Liu, Hang Cong, Qingmei Ge, Wenfeng Zhao, Nan Jiang* and Qian Zhang*

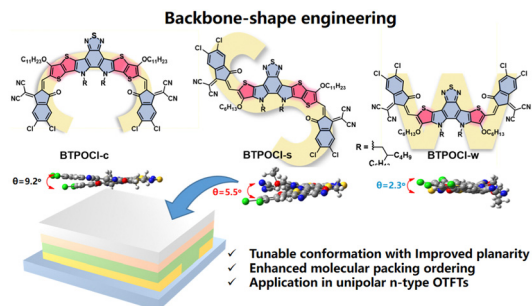


RESEARCH ARTICLES

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Backbone-shape engineering of fused-ring electron-deficient molecular semiconductors for unipolar n-type organic transistors: synthesis, conformation changes, and structure–property correlations

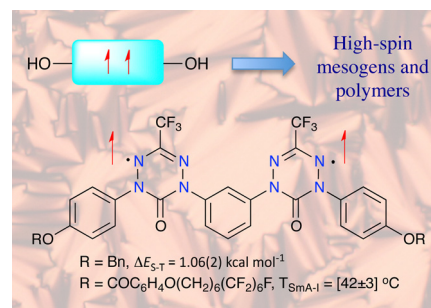
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Mesogenic behavior of a 6-oxoverdazyl diradical: towards organic high-spin liquid crystals

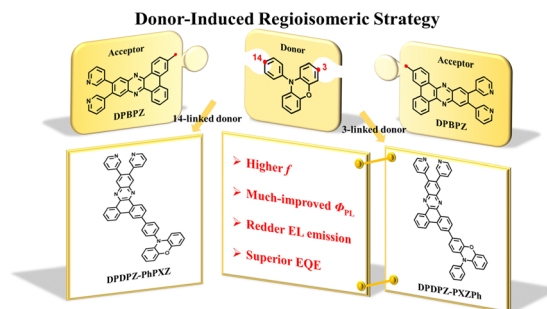
Szymon Kapuściński, Jacek Szczytko, Damian Pociecha and Piotr Kaszyński*



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Multiplying the electroluminescence efficiencies of red TADF emitters via a regioisomeric approach of the donor unit

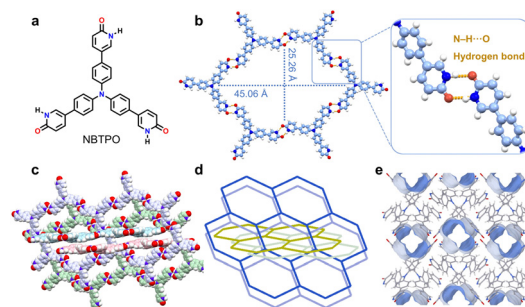
Xi Zhang, Hui Wang, Jia-Xiong Chen, Lu Zhou, Xiao-Yao Hao, Jia Yu, Kai Wang* and Xiao-Hong Zhang*

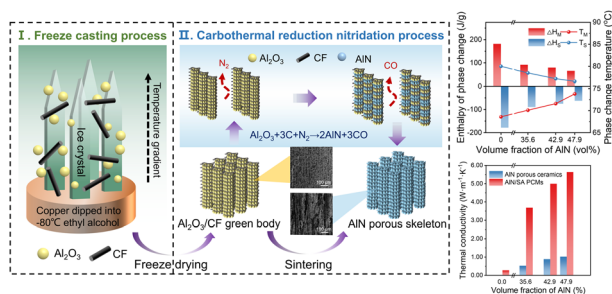


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A stable pyridone-based hydrogen-bonded organic framework for electrochemical detection of dopamine

Yong-Min Liu, Bai-Tong Liu,* Yu-Lin Li, Jin-Lin Li, Tian-Fu Liu and Lei Cai*





In situ construction of vertically aligned AlN skeletons for enhancing the thermal conductivity of stearic acid-based phase-change composites

Chang Yu, Pan Yang, Baokai Wang, Mengyi Li, Mengyang Niu, Kunjie Yuan, Weiwei Xuan, Qipeng Lu, Wenbin Cao and Qi Wang*

