Journal of Materials Chemistry A

Materials for energy and sustainability

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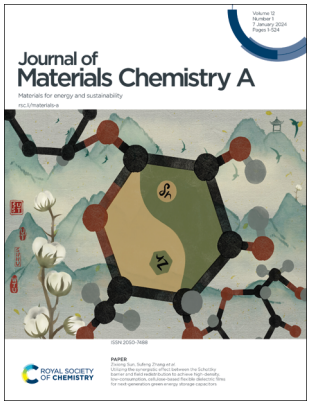
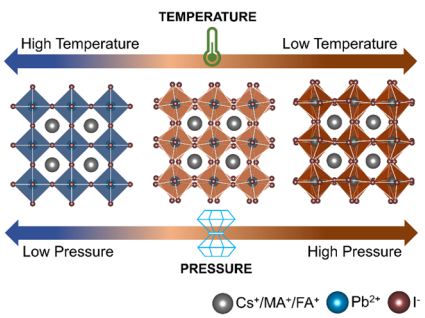


Cover
See Zixiong Sun, Sufeng Zhang *et al.*, pp. 128–143. Image reproduced by permission of Zixiong Sun and Sufeng Zhang from *J. Mater. Chem. A*, 2024, **12**, 128.

EDITORIAL

PERSPECTIVE



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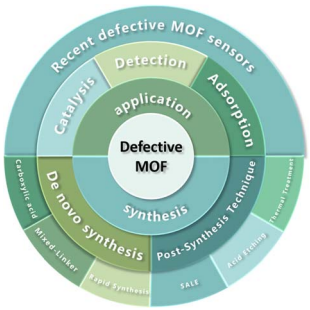
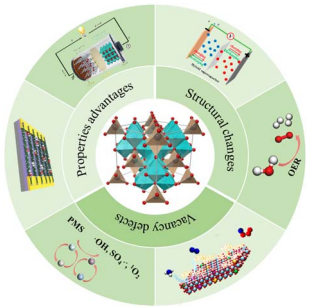
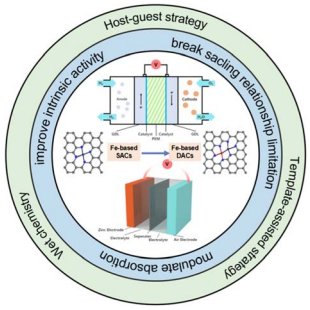
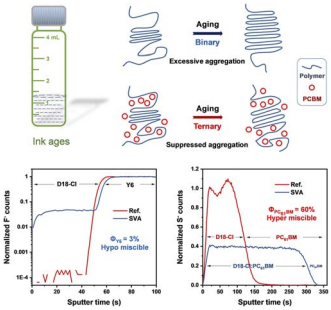






COMMUNICATIONS



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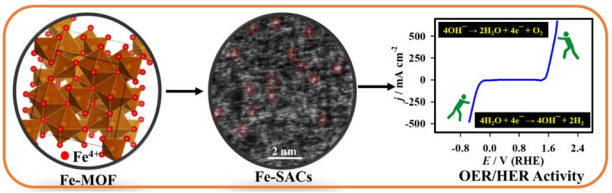

High-valent iron single-atom catalysts for improved overall water splitting *via* a reduced energy barrier and stabilization of the active center

Ayyavu Shankar, Sundaramoorthy Marimuthu and Govindhan Maduraiveeran*

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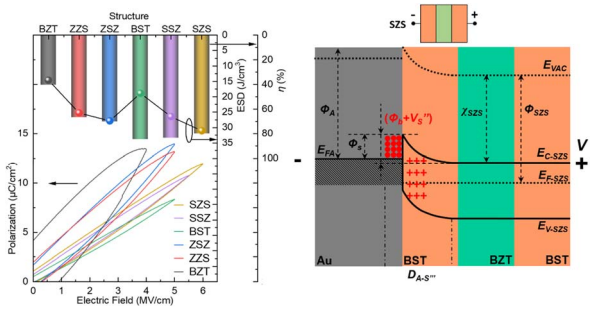

Utilizing the synergistic effect between the Schottky barrier and field redistribution to achieve high-density, low-consumption, cellulose-based flexible dielectric films for next-generation green energy storage capacitors

Zixiong Sun,* Hansong Wei, Shibo Zhao, Qing Guo, Yuhan Bai, Siting Wang, Peiyao Sun, Kang Du, Yating Ning, Ye Tian, Xiaohua Zhang, Hongmei Jing, Yongping Pu and Sufeng Zhang*

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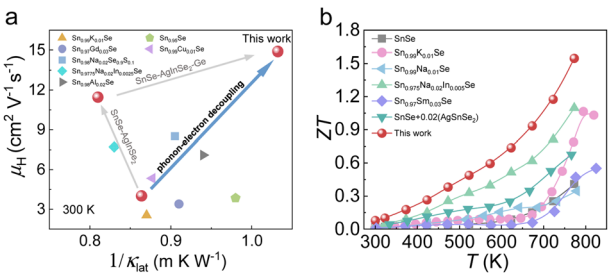

Modulating structures to decouple thermoelectric transport leads to high performance in polycrystalline SnSe

Yuping Wang, Shulin Bai, Haonan Shi, Qian Cao, Bingchao Qin* and Li-Dong Zhao*

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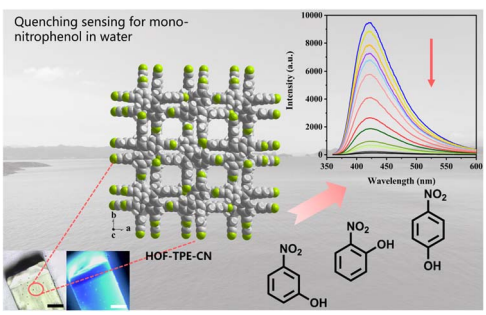

A fluorescent hydrogen-bonded organic framework for highly selective sensing of mono-nitrophenol isomers in water

Yu-Xin Lin, Chenghao Jiang, Yu-Bo Wang, Jia-Xin Wang, Bin Li* and Guodong Qian*

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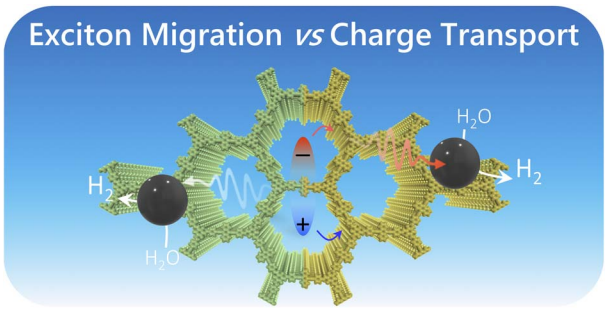

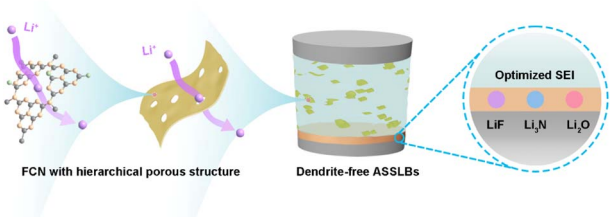

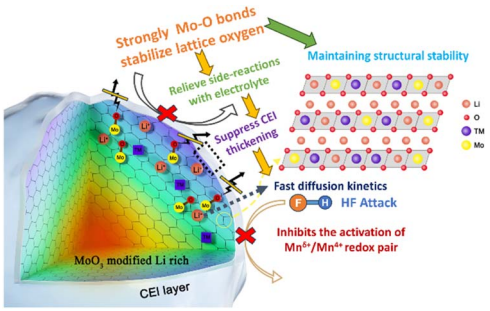

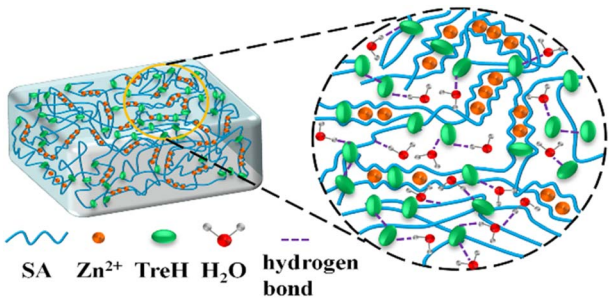

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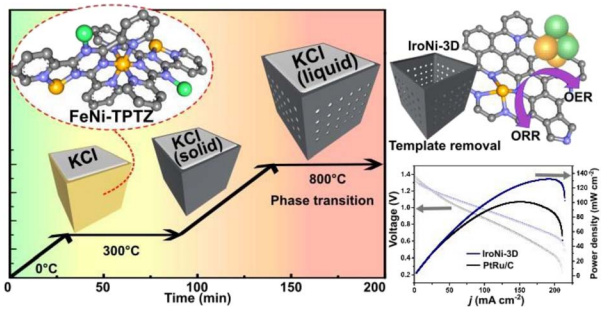

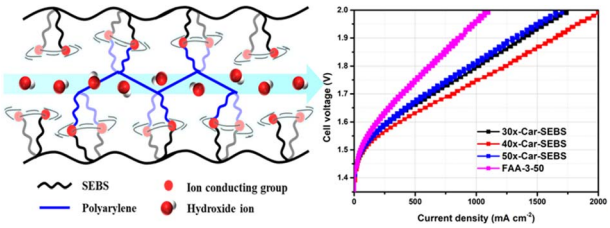

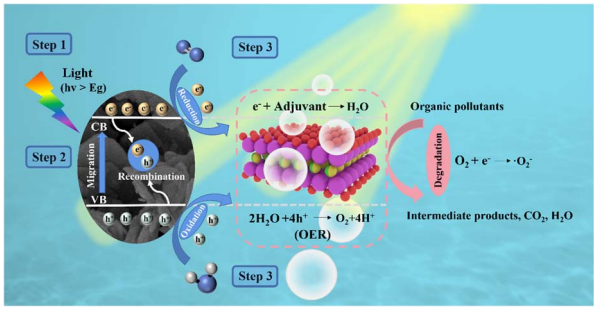

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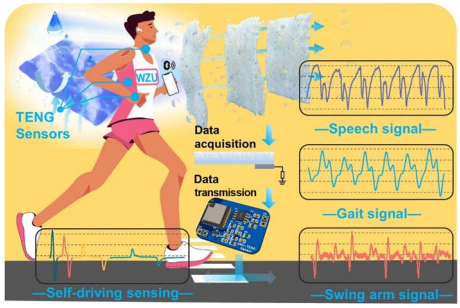

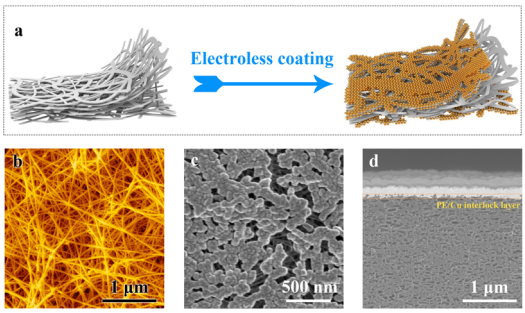

CORRECTIONS