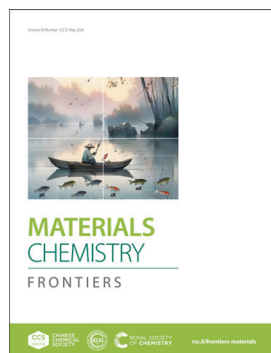


### IN THIS ISSUE

ISSN 2052-1537 CODEN MCFAC5 8(10) 2183-2294 (2024)



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Jiong Zhou *et al.*,  
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### PROFILE

2188

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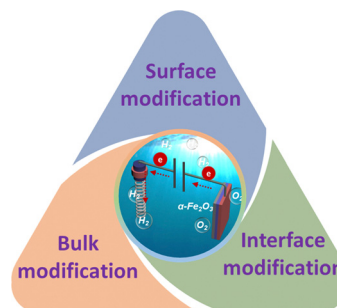


### REVIEWS

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#### Enhancing photocatalytic efficiency with hematite photoanodes: principles, properties, and strategies for surface, bulk, and interface charge transfer improvement

Bibhuti Kumar Jha, Sourav Chaule and Ji-Hyun Jang\*



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Fundamental questions  
Elemental answers

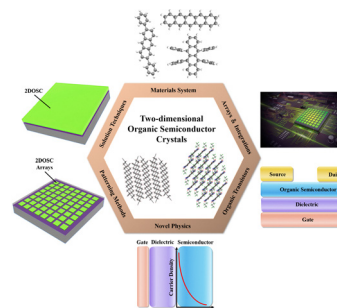


## REVIEWS

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### Novel solution-processed 2D organic semiconductor crystals for high-performance OFETs

Zheng Chen, Shuming Duan,\* Xiaotao Zhang and Wenping Hu\*

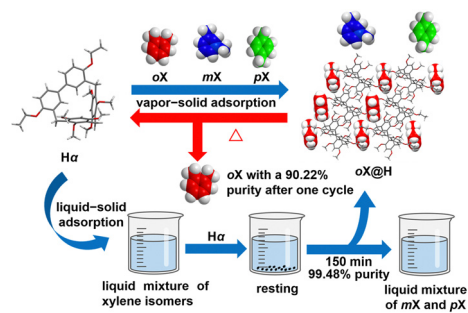


## RESEARCH ARTICLES

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### Efficient separation of xylene isomers by nonporous adaptive crystals of hybrid[3]arene in both vapor and liquid phases

Yuhao Wang, Zhenyu Wang, Shiqi Wei, Sha Wu, Mengbin Wang,\* Guocan Yu,\* Peng Chen, Xiaowei Liu\* and Jiong Zhou\*



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### Nanosheet floral clusters of Fe-doped $\text{Co}_3\text{O}_4$ for high-performance supercapacitors

Congcong Lu, Yu Yang, Songjun Li and Maiyong Zhu\*

