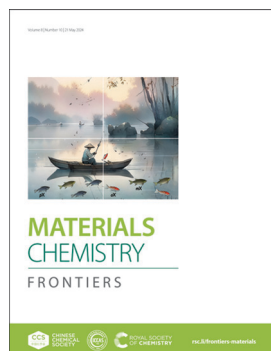


### IN THIS ISSUE

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



#### Cover

See Mengbin Wang,  
Guocan Yu, Xiaowei Liu,  
Jiong Zhou *et al.*,  
pp. 2273-2281.  
Image reproduced  
by permission of  
Jiong Zhou from  
*Mater. Chem. Front.*,  
2024, 8, 2273.

### PROFILE

2188

#### Contributors to the *Materials Chemistry Frontiers* Emerging Investigator Series 2022-2023

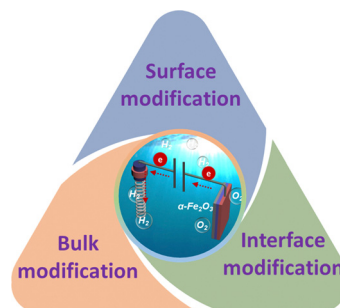


### REVIEWS

2197

#### 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\*



# Environmental Science: Atmospheres

GOLD  
OPEN  
ACCESS

Connecting communities  
and inspiring new ideas



Open Access Article. Published on 14 May 2024. Downloaded on 12/5/2025 11:39:31 AM.  
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

[rsc.li/submittoEA](https://rsc.li/submittoEA)

Fundamental questions  
Elemental answers



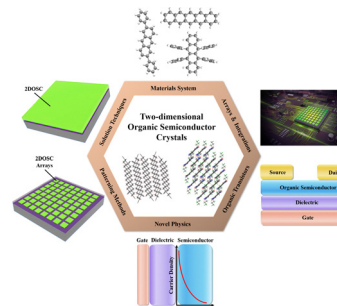


## REVIEWS

2227

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

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

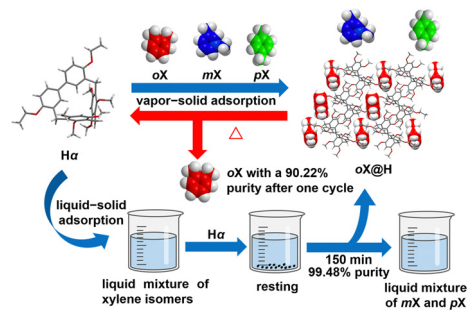


## RESEARCH ARTICLES

2273

## 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\*



2282

## 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\*

