# Energy & Environmental Science

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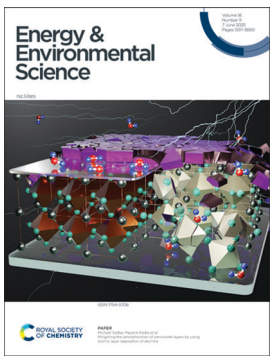
## IN THIS ISSUE

ISSN 1754–5706 CODEN EESNBY 18(11) 5011–5660 (2025)

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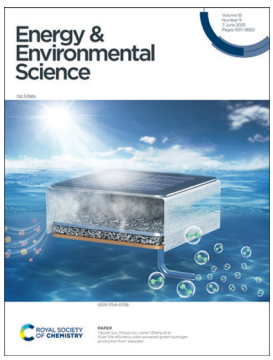
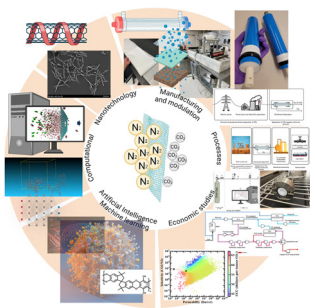
See Michael Saliba, Mayank Kedia *et al.*, pp. 5250–5263. Image reproduced by permission of Hyrhorii P. Parkhomenko from *Energy Environ. Sci.*, 2025, **18**, 5250.



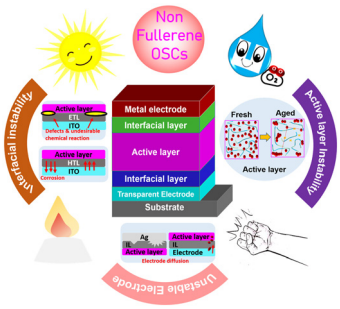

**Inside cover**
See Yayuan Liu, Xinyue Liu, Lenan Zhang *et al.*, pp. 5264–5276. Image reproduced by permission of Lenan Zhang from *Energy Environ. Sci.*, 2025, **18**, 5264.

## REVIEWS









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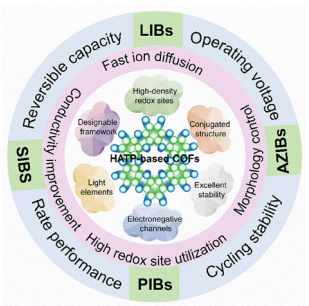




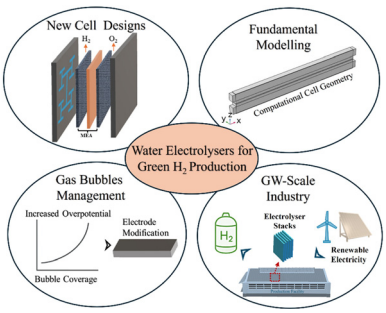




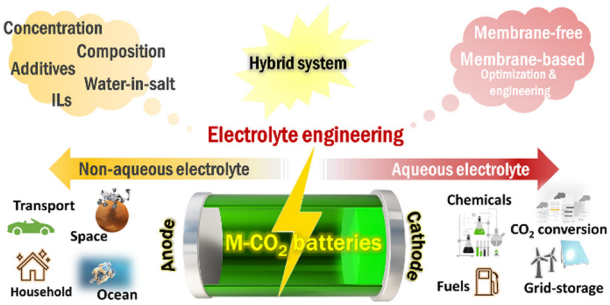


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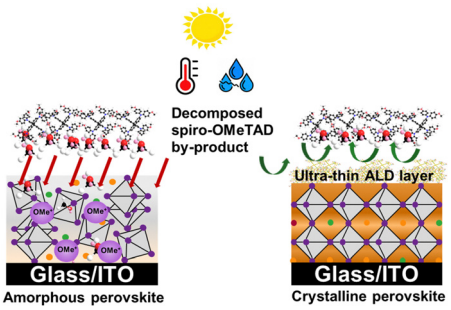

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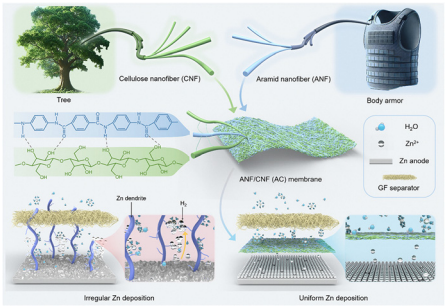




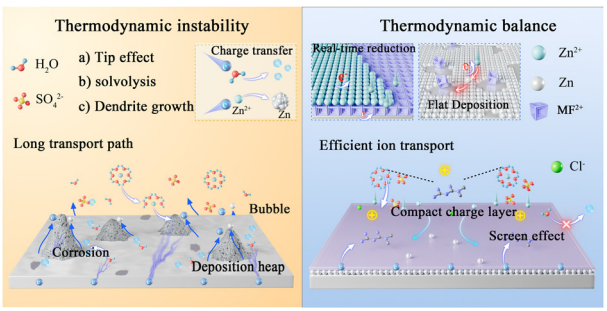




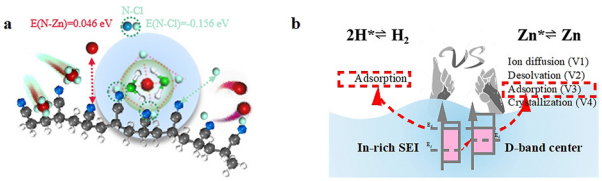




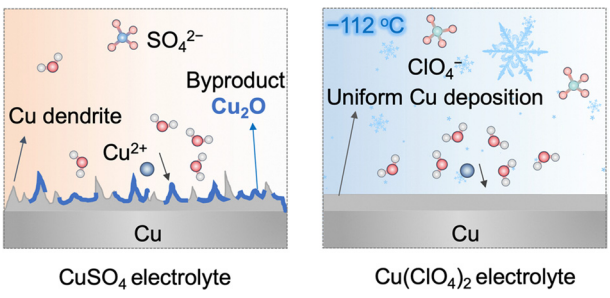

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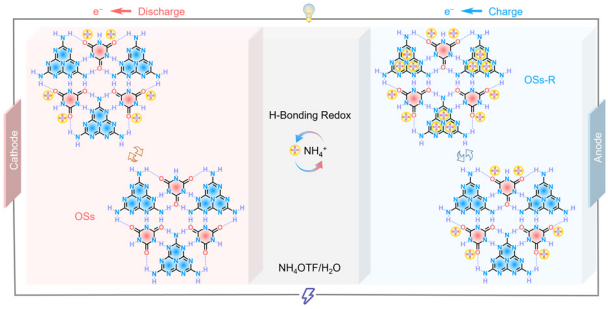




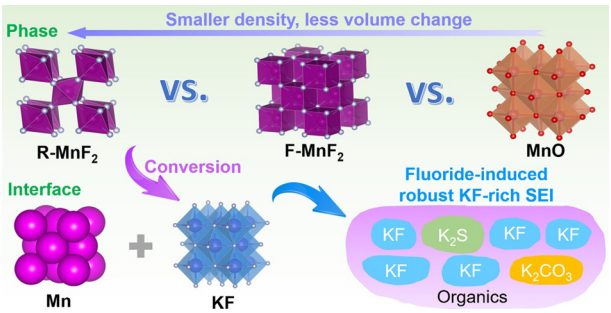




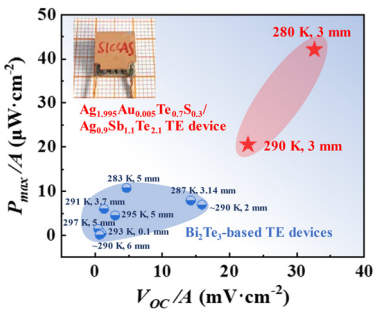




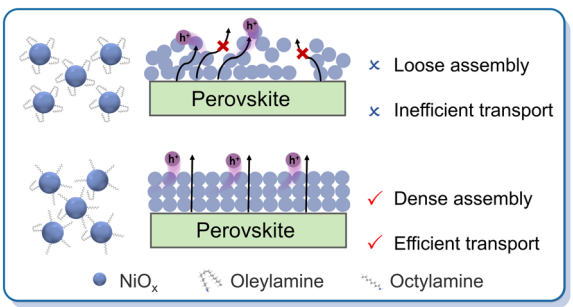

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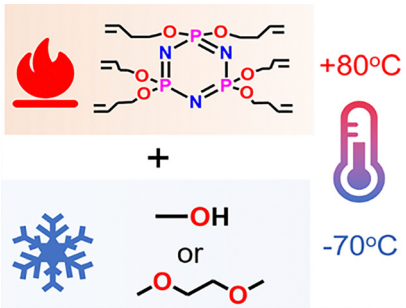




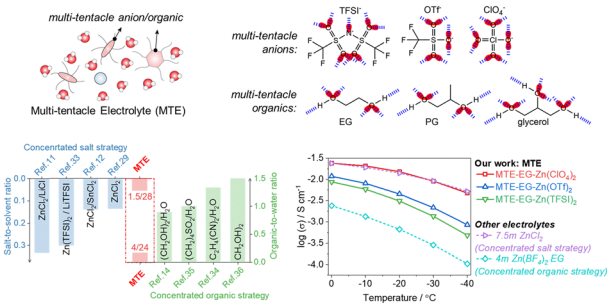




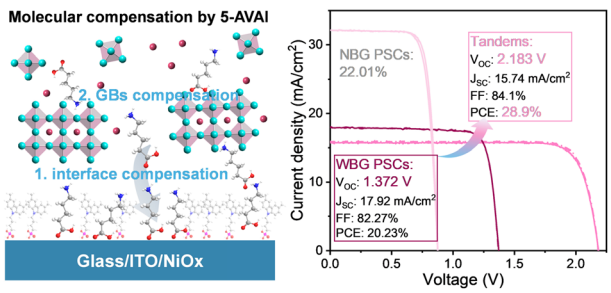




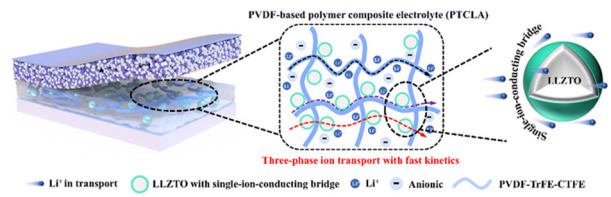

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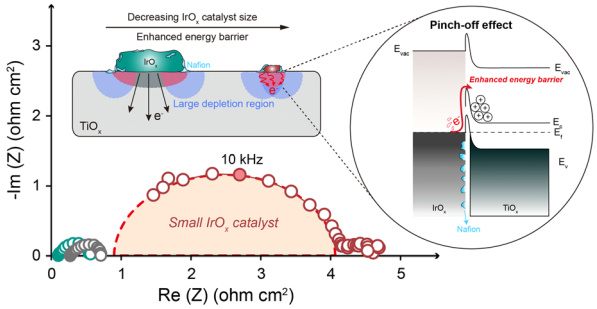
## On the interface electron transport problem of highly active $IrO_x$ catalysts

Jeesoo Park, Dong Wook Lee, Jonghyun Hyun, Hojin Lee, Euntaek Oh, Kyunghwa Seok, Gisu Doo* and Hee-Tak Kim*

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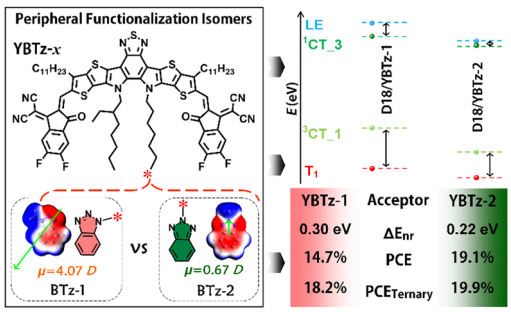
## Isomerization of peripheral functional groups refines aggregation and non-radiative energy loss for efficient organic photovoltaics

Xiaoning Wang, Xiangyu Shen, Jianxiao Wang, Fuzhen Bi,* Huanxiang Jiang, Hao Lu, Cheng Sun, Chunming Yang, Yonghai Li* and Xichang Bao*

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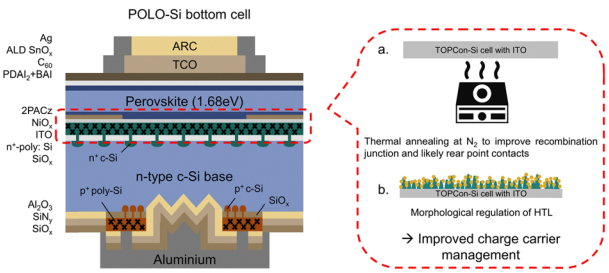
## Charge carrier management for highly efficient perovskite/Si tandem solar cells with poly-Si based passivating contacts

Xuzheng Liu, Michael Rienäcker, Mohammad Gholipoor, Lingyi Fang, Tonghan Zhao, Benjamin Hacene, Julian Petermann, Ruijun Cai, Hang Hu, Thomas Feeney, Faranak Sadegh, Paul Fassl, Renjun Guo,* Uli Lemmer, Robby Peibst* and Ulrich Wilhelm Paetzold*

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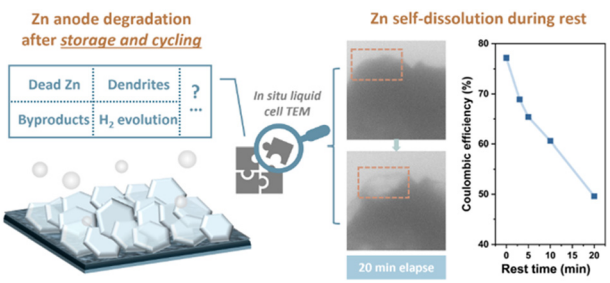
## Identifying the role of Zn self-dissolution in the anode corrosion process in Zn-ion batteries

Yi Yuan,* Zixuan Li, Rongyu Deng, Shengda D. Pu, Marc Walker, Mingzhi Cai, Feixiang Wu, Peter G. Bruce and Alex W. Robertson*



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## CORRECTION