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## IN THIS ISSUE

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**Cover**
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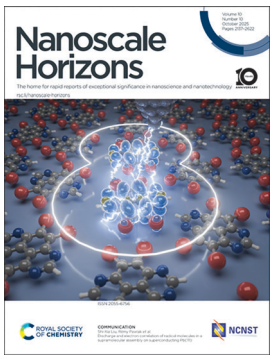


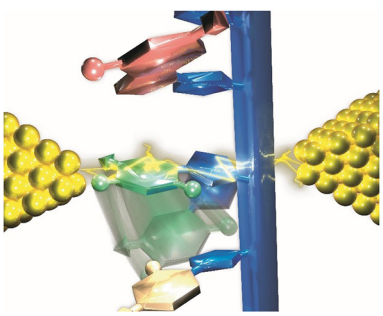

**Inside cover**
See Shi-Xia Liu, Rémy Pawlak *et al.*, pp. 2365–2373. Image reproduced by permission of Rémy Pawlak from *Nanoscale Horiz.*, 2025, **10**, 2365.

## EDITORIAL



## COMMENTARY





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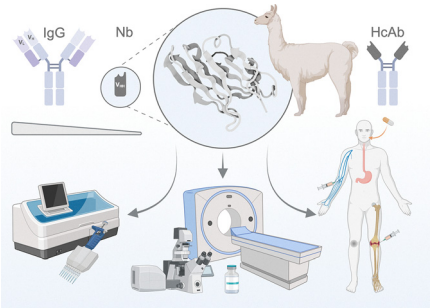




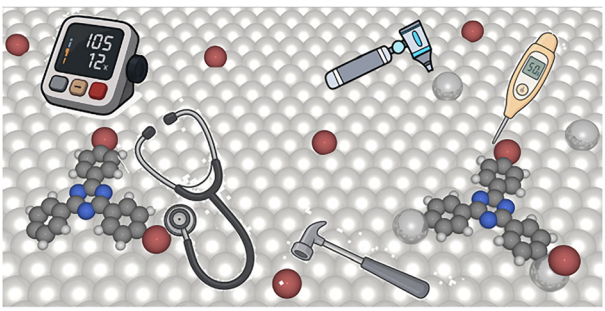



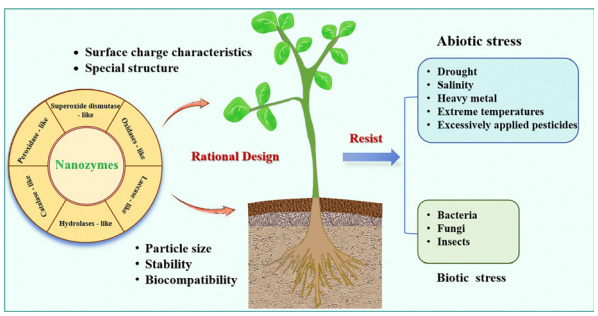




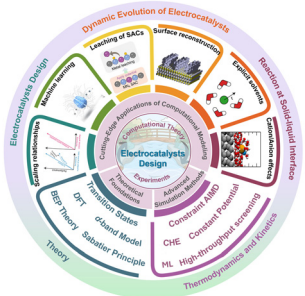

REVIEWS

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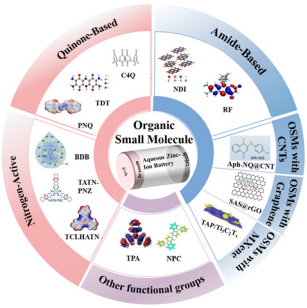


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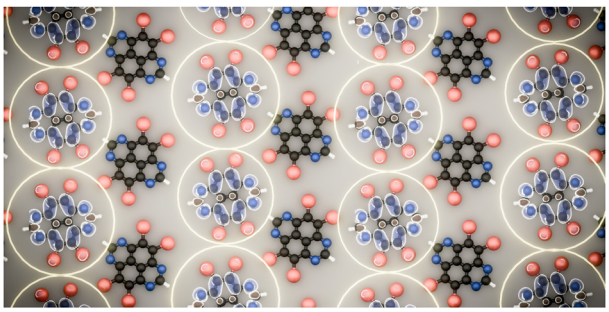



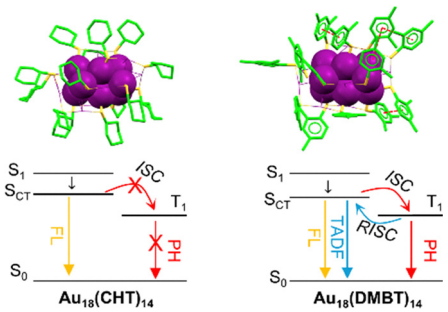




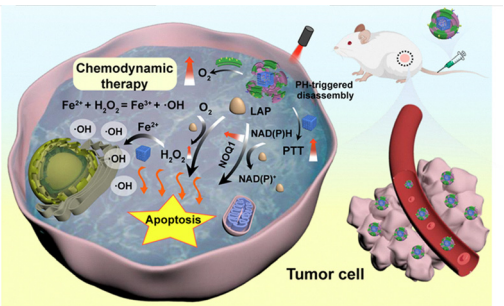

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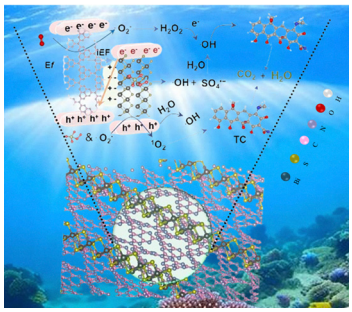
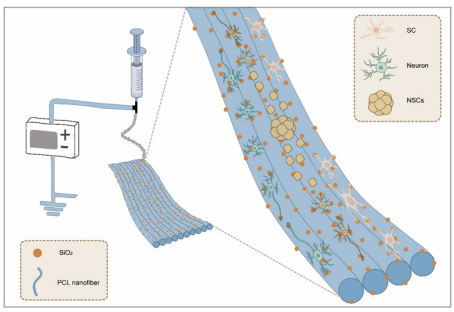
2397



### *In situ* interfacial engineering of 1D $Bi_2S_3$/2D g-$C_3N_4$ heterostructures for antibiotics degradation in aqueous media *via* light mediated peroxymonosulfate activation

Muhammad Mateen,* Guanrong Chen, Na Guo* and Wee Shong Chin*

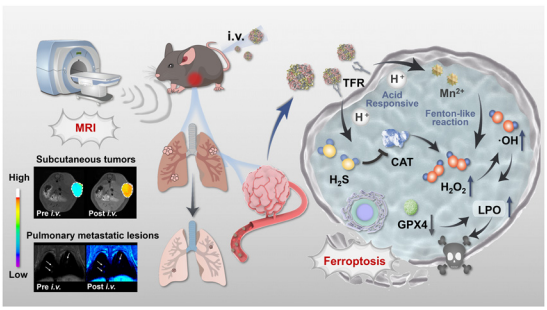
2411




### "Cell climbing stones" – varying the surfaces of electrospun nanofibers with protrusions as secondary structures to manipulate neural cell behaviors

Yawen Wang, Xiaopei Zhang, Lijie Yao, Yuying Yan, Yuanfei Wang and Tong Wu*

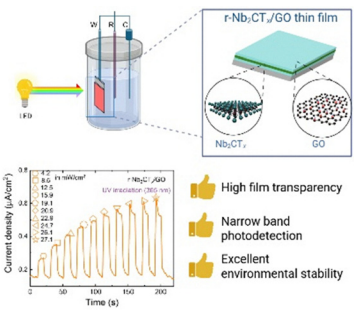
2422




### A transferrin-targeted nanoplatform for MRI-guided visualization and potent suppression of tumors and pulmonary metastatic lesions

Liya Tian, Pengju Ma, Wenxiu Zhuang, Yinlong Xu, Lihua Pang, Kai Guo, Ke Ren, Xueli Xu, Xiao Sun* and Shunzhen Zheng*

2434




### Unraveling interfacial interactions in reduced $Nb_2CT_x$/GO heterostructures for highly stable and transparent narrow-band photoelectrochemical photodetectors

Muhammad Abiyyu Kenichi Purbayanto,* Subrata Ghosh, Dorota Moszczyńska, Carlo S. Casari and Agnieszka Maria Jastrzębska*

## COMMUNICATIONS

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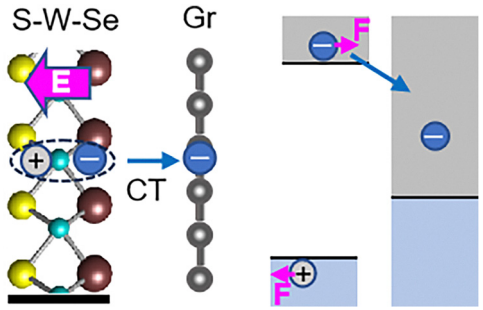




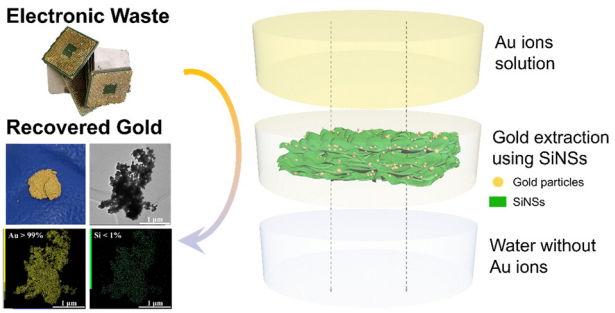




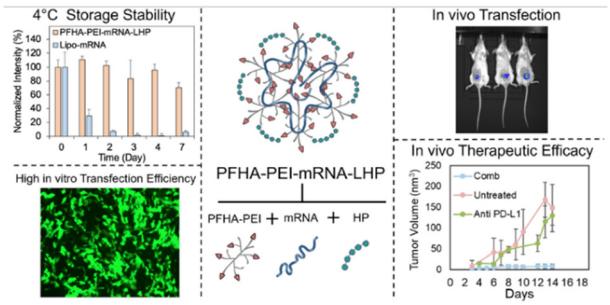




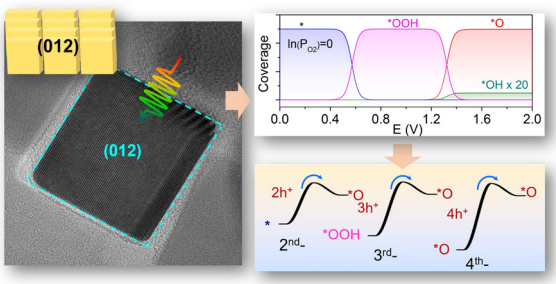

## COMMUNICATIONS

2615

## Tunable directional thermal emission using a phase change material-based multilayer structure

Kandammathe Valiyaveedu Sreekanth,*
Qing Yang Steve Wu, Sambhu Jana,
Ranjan Singh and Jinghua Teng*