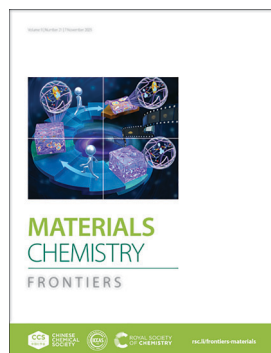


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#### Cover

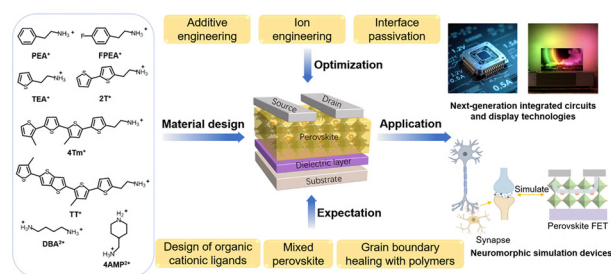
See Xian-Yin Dai *et al.*, pp. 3139–3148. Image reproduced by permission of Xian-Yin Dai from *Mater. Chem. Front.*, 2025, 9, 3139.

### REVIEWS

3096

#### Organic–inorganic hybrid halide perovskites for field-effect transistors

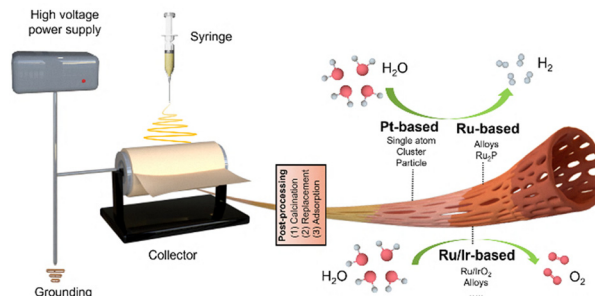
Sichen Liu, Xuanxuan Sun, Tianbo Zheng, Qinghua Xu,\* Yao Gao\* and Xing Lu\*



3125

#### Electrospun noble metal-based nanofibers for water electrolysis

Boxin Xiao, Jiaqing Liu, Junzhe Fang, Jilan Zeng, Kunlong Liu,\* Shiqiang Feng,\* Jiayi Chen and Xue Feng Lu\*



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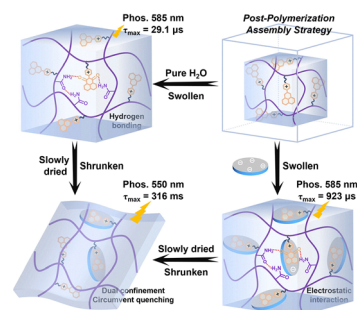


## RESEARCH ARTICLES

3139

### Constructing highly efficient dual-confinement phosphorescence supramolecular naphthalimide pyridinium networks via eco-friendly post-polymerization assembly

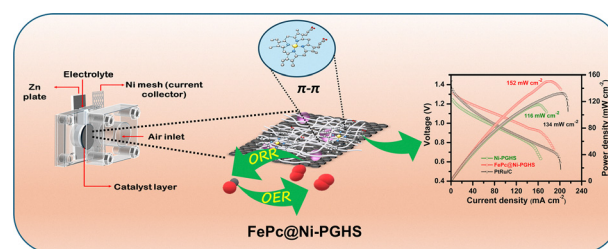
Qi Song, Xianfeng Meng, Xue Bai, Yongbin Sun, Yanqing Ge and Xian-Yin Dai\*



3149

### Iron phthalocyanine assisted bifunctional oxygen electrocatalyst for high-performance and long-life rechargeable zinc–air batteries

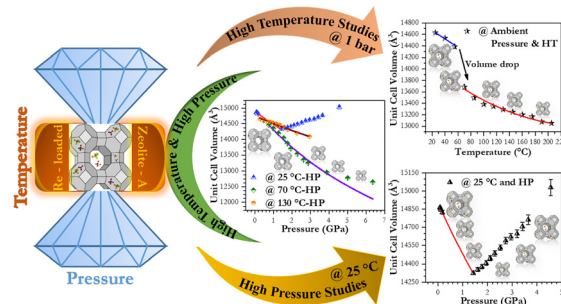
Zubair Ahmed, Jekaterina Kozlova, Arvo Kikas, Vambola Kisand, Alexey Treshchalov, Maike Käärrik, Jaan Leis, Jaan Aruväli, Kaupo Kukli and Kaido Tammeveski\*



3161

### An experimental investigation unravelling the aberrant thermo-mechanical behaviour of Re-loaded zeolite Na-A

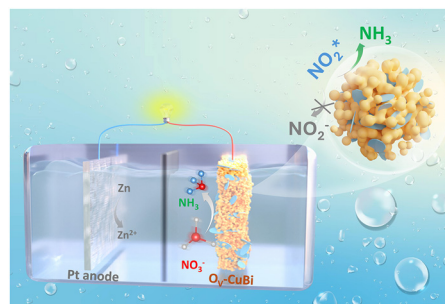
Abhinash Maharana, Abhiram Senapati, K. A. Irshad, Boby Joseph and Hrudananda Jena\*



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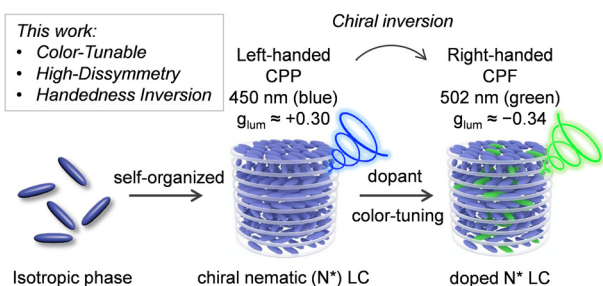
### Oxygen vacancy-mediated Bi–CuO<sub>x</sub> heterostructure for enhanced electrochemical nitrate-to-ammonia production and Zn–nitrate battery behavior

Thi Kim Cuong Phu, Thanh Ngoc Pham, Tam Duy Nguyen, An-Giang Nguyen, Thi Nhan Tran, Ngan Nguyen Le,\* Phi Long Nguyen\* and Thi Viet Bac Phung



## RESEARCH ARTICLES

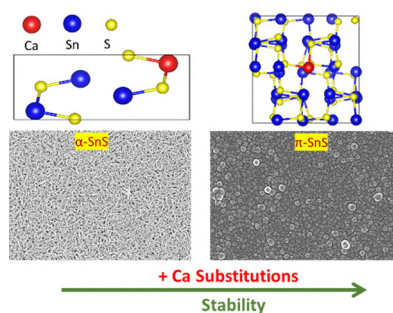
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### Color-tunable, high-dissymmetry circularly polarized phosphorescence in chiral nematic phases: self-assembly, energy transfer, and handedness inversion

Jung-Moo Heo, Jihyun Park and Jinsang Kim\*

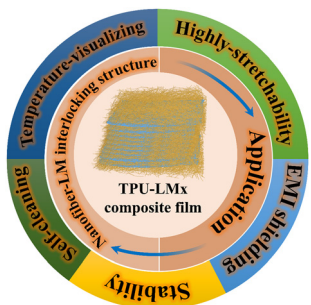
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### Stabilization of the cubic $\pi$ -phase of SnS by calcium substitution

Neeraj Mishra, Susmita Paul, Lonja R. Friedlander, Yuval Golan\* and Guy Makov\*

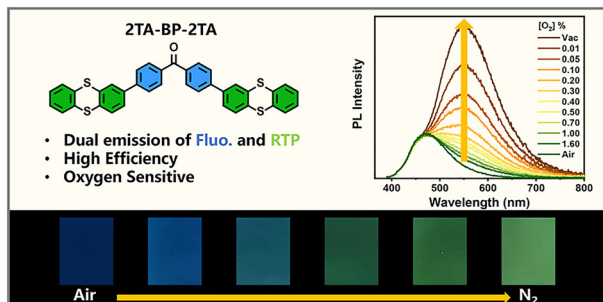
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### Highly stretchable liquid metal/nanofiber films for electromagnetic interference shielding, self-cleaning and temperature-visualizing

Xueting Zhang, Xiuling Zhang,\* Guoqiang Jin, Bin Liu, Jimmy Yun and Dapeng Cao\*

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### Optimizing combination between thianthrene and benzophenone toward efficient room-temperature phosphorescence and oxygen sensing

Zhiqiang Yang, Meng Liu, Yunpeng Ge, Yingbo Lv, Zhe Feng, Haichao Liu\* and Bing Yang\*



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### 3D-Printable organic room-temperature phosphorescent elastomers based on *N*-ethylcarbazole derivatives

Yuxin Xiao, Haodong Sun, Yuanda Luo, Zhuopeng Wu, Shutong Zheng, Jinsen Chen and Tao Yu\*

