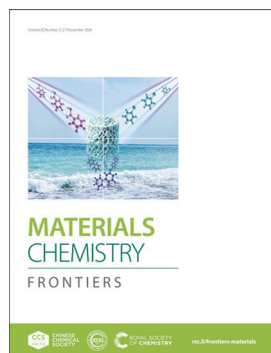


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#### Cover

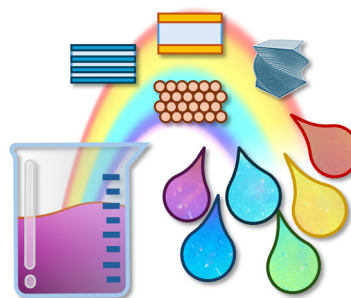
See Chiara Zagni *et al.*, pp. 3558–3568. Image reproduced by permission of Chiara Zagni from *Mater. Chem. Front.*, 2024, 8, 3558.

### REVIEWS

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#### Solution-processed structural colors and their applications

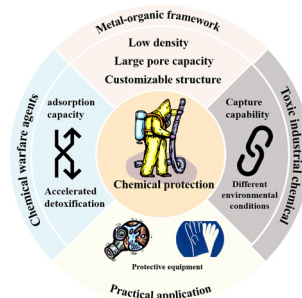
Wei-Jie Feng, Jennie Paik and L. Jay Guo\*



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#### A review on metal–organic frameworks (MOFs) and MOF–textile composites for personal protection

Junmei Li, Yanan Fan, Ruigan Zhang, Demao Ban, Zhixuan Duan, Xiaoyuan Liu and Lifang Liu\*



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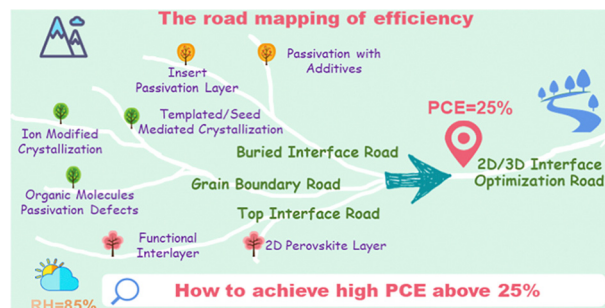


## REVIEWS

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### Interface passivation strategies for high-performance perovskite solar cells using two-dimensional perovskites

He Huang, Xiaobo Zhang, Wencai Zhou, Yong Huang, Zilong Zheng,\* Xiaoqing Chen,\* Yongzhe Zhang\* and Hui Yan

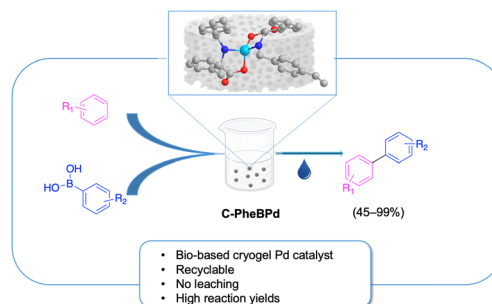


## RESEARCH ARTICLES

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### Bio-based palladium catalyst in cryogel for cross-coupling reactions

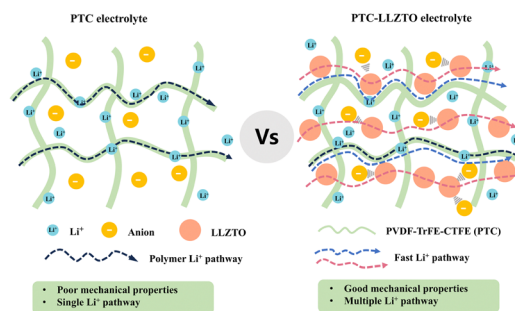
Elisabetta Grazia Tomarchio, Chiara Zagni,\* Vincenzo Paratore, Guglielmo Guido Condorelli, Sabrina Carola Carroccio and Antonio Rescifina



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### Dissociating high concentration lithium salts in LLZTO-based high dielectric polymer electrolytes for low temperature Li metal batteries

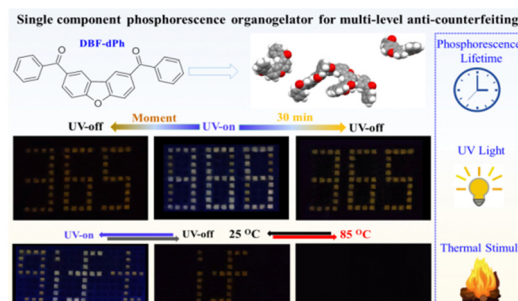
Jiajun Gong, Zhicheng Yao, Qimin Peng, Huizi Tang, Wenhao Han and Shimou Chen\*



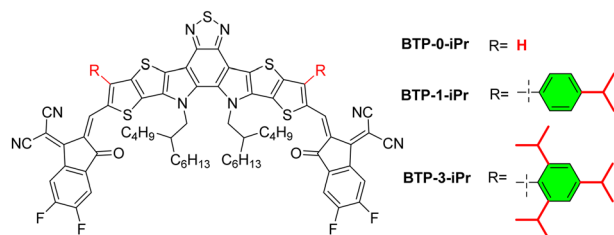
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### From elementary to advanced: rational design of single component phosphorescence organogels for anti-counterfeiting applications

Huamiao Lin, Yi Shi, Yan Li, Shuzhan Chen, Wei Wang, Peng Geng,\* Jiaying Yan and Shuzhang Xiao\*



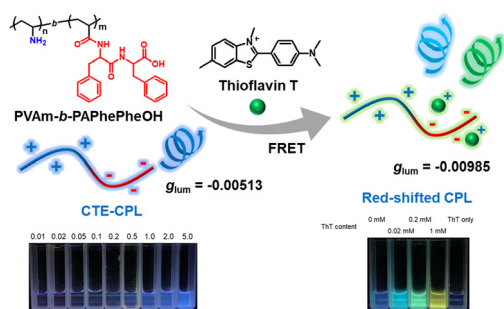
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### Aromatic side chain manipulation in A–DA'D–A type acceptors for organic photovoltaics

ChengLong Wen, Jun Yuan, Zhiguo Zhang, Dongxu Li, Yuqian Zhou, Wanqiang Liu, Zaichun Zhou, Yungui Li, Lihui Jiang\* and Yingping Zou

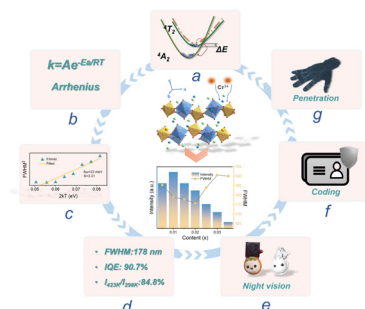
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### Multicolor circularly polarized luminescence: pendant primary amine/diphenylalanine chiral copolymers with clustering-triggered emission

Ryo Yonenuma, Aoi Takenaka, Tamaki Nakano and Hideharu Mori\*

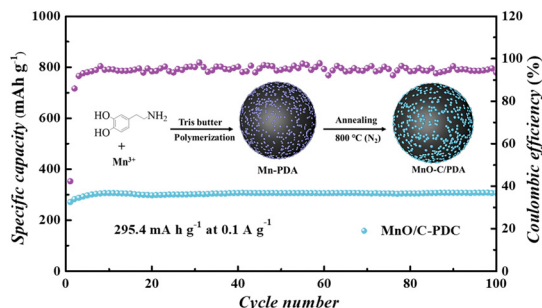
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### Novel high-efficiency near-infrared phosphor $\text{CaZrTaGaO}_7:\text{Cr}^{3+}$ and its application in night vision and anti-counterfeiting

Xue Meng, Zhijun Wang,\* Xiaoxue Huo, Mingxin Zhou, Yu Wang and Panlai Li\*

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### Manganese(II) oxide-embedded dopamine-derived carbon nanospheres for durable zinc-ion batteries

Zixiang Zhou, Jianbo Tong,\* Jiale Guo, Shaofeng Guo, Shuhan Liu, Zhipeng Qin, Zelei Chang, Chao Wang and Shuling Liu\*

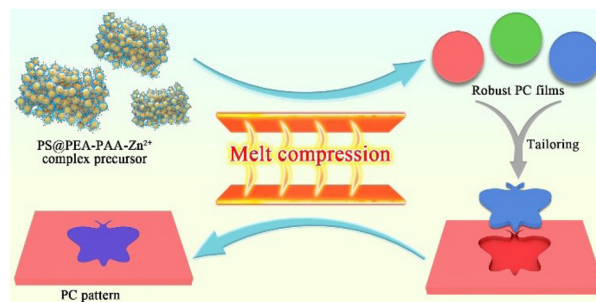


## RESEARCH ARTICLES

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### Coordination-bond-assisted fabrication of robust composite photonic crystal films through melt-compression

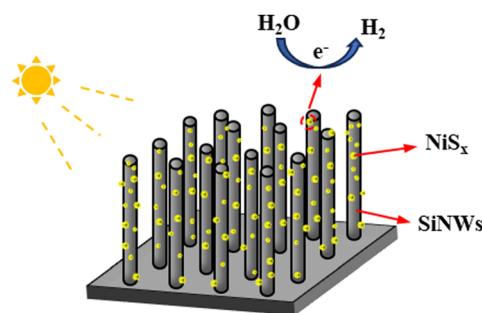
Jiahao Li, Tongling Yu, Chengcai Wu, Qian Yao Fang and Xin Su\*



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### Nickel sulfide cocatalyst-modified silicon nanowire arrays for efficient seawater-based hydrogen generation

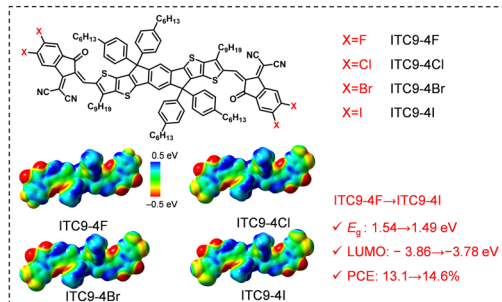
Junjie Wang, Bo Wang, Ximeng He, Jun Lv,\* Zhiyong Bao, Jiewu Cui, Guangqing Xu\* and Wangqiang Shen\*



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### A comprehensive study on the halogenation effect of non-fullerene acceptors for photovoltaic application

Jing Peng, Lijiao Ma, Huixue Li, Guanlin Wang, Zhihao Chen, Feiwu Chen,\* Jianhui Hou\* and Shaoqing Zhang\*



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### Reuse of spent industrial graphite in batteries by green recycling and interphase functionalization

Yu Jiang, Yuqing Li, Qunting Qu,\* Linze Lv, Jie Shao,\* Jing Wang and Honghe Zheng\*

