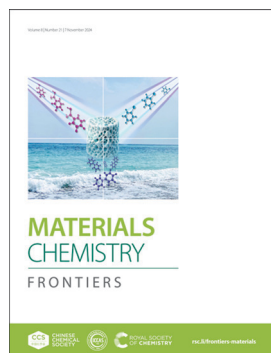


IN THIS ISSUE

ISSN 2052-1537 CODEN MCFAC5 8(21) 3467-3666 (2024)



Cover

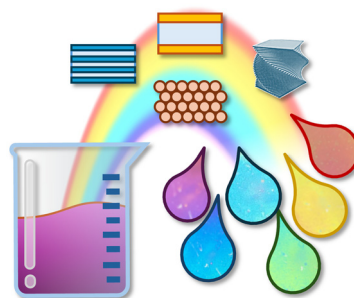
See Chiara Zagni *et al.*, pp. 3558–3568. Image reproduced by permission of Chiara Zagni from *Mater. Chem. Front.*, 2024, 8, 3558.

REVIEWS

3474

Solution-processed structural colors and their applications

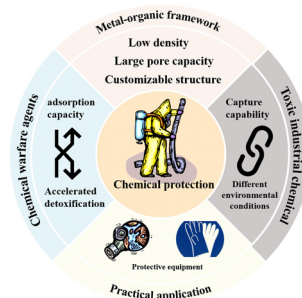
Wei-Jie Feng, Jennie Paik and L. Jay Guo*



3509

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*



Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit rsc.li/cpd-training



**SAVE
10%**

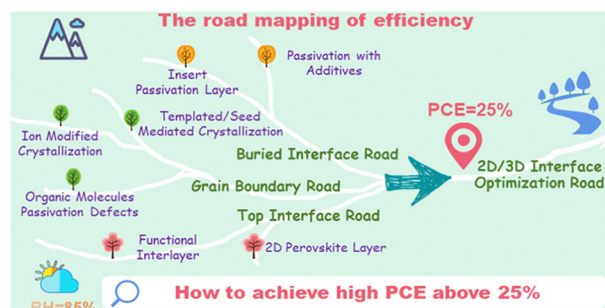


REVIEWS

3528

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

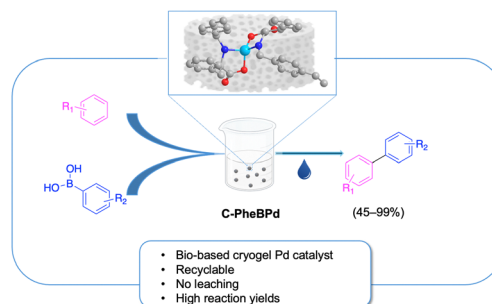


RESEARCH ARTICLES

3558

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

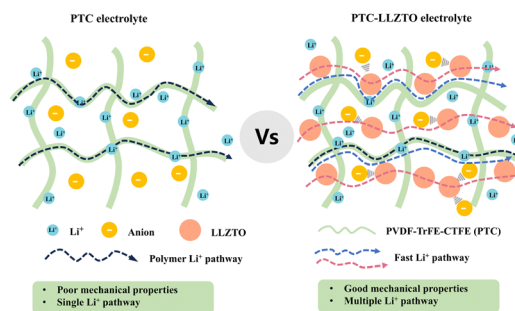
Elisabetta Grazia Tomarchio, Chiara Zagni,* Vincenzo Paratore, Guglielmo Guido Condorelli, Sabrina Carola Carroccio and Antonio Rescifina



3569

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

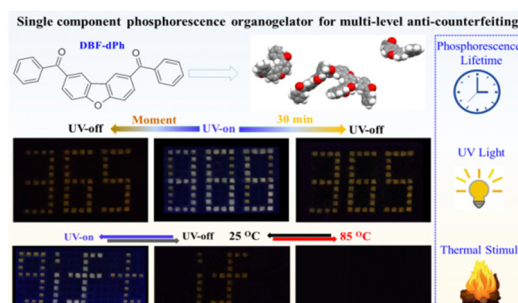
Jiajun Gong, Zhicheng Yao, Qimin Peng, Huizi Tang, Wenhao Han and Shimou Chen*



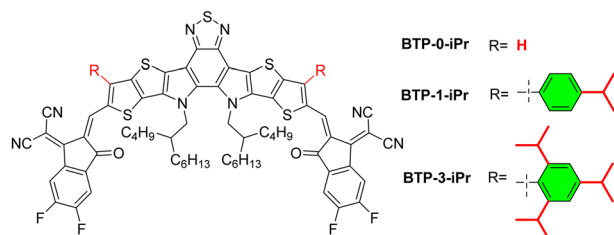
3577

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*



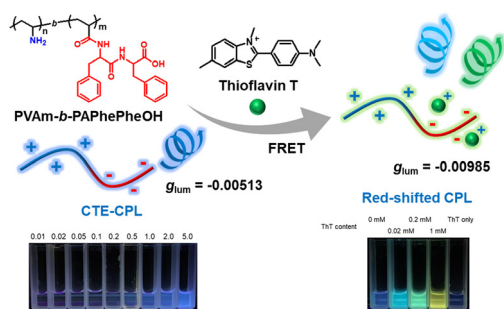
3587



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

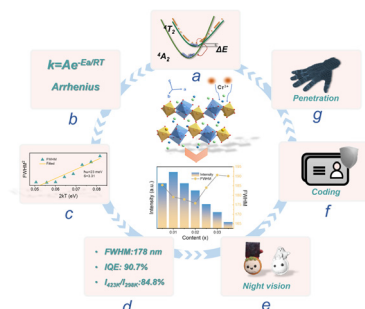
3596



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

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

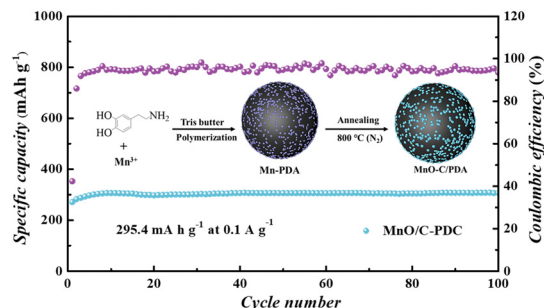
3608



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*

3616



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*

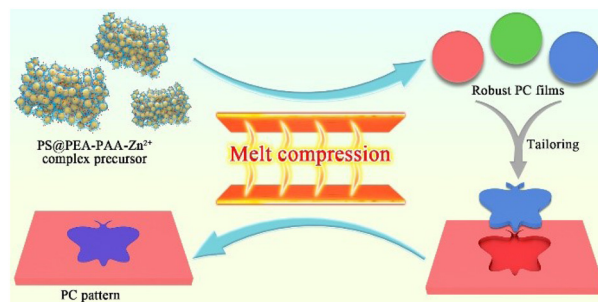


RESEARCH ARTICLES

3624

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

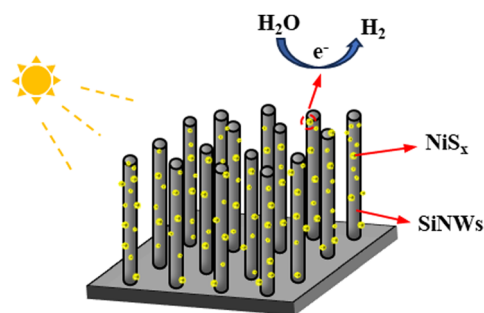
Jiahao Li, Tongling Yu, Chengcai Wu, Qianyao Fang and Xin Su*



3634

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

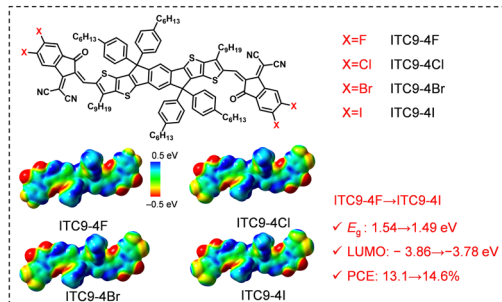
Junjie Wang, Bo Wang, Ximeng He, Jun Lv,* Zhiyong Bao, Jiewu Cui, Guangqing Xu* and Wangqiang Shen*



3643

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*



3653

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*

