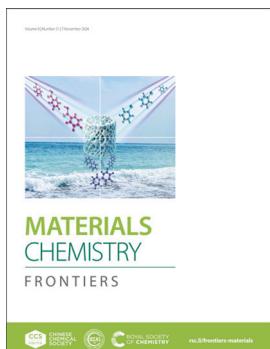


IN THIS ISSUE

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

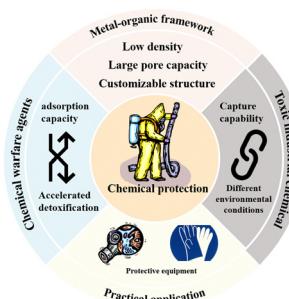
Wei-Jie Feng, Jennie Paik and L. Jay Guo*



3509

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

Junmei Li, Yinan 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%

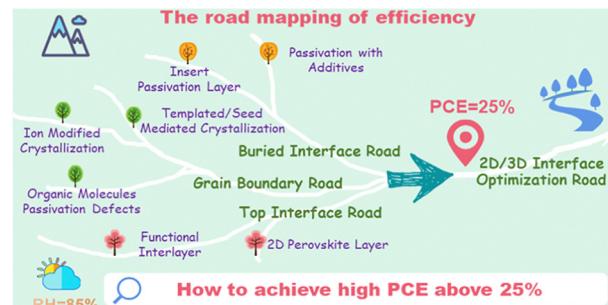


REVIEWS

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

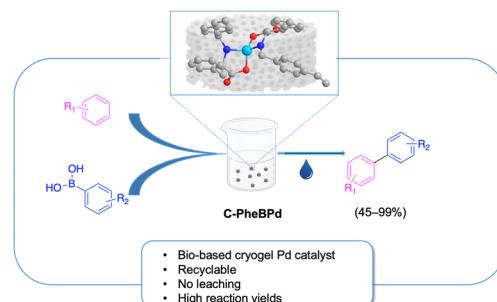


RESEARCH ARTICLES

3558

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

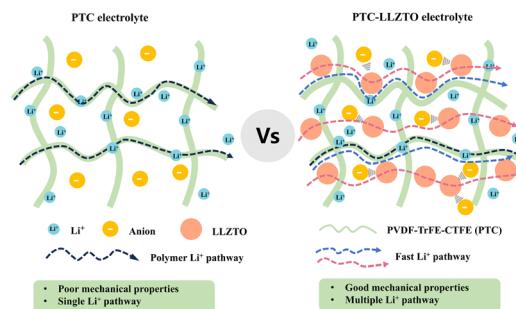
Elisabetta Grazia Tomarchio, Chiara Zagni,* Vincenzo Paratore, Guglielmo Guido Condorelli, Sabrina Carola Carroccio and Antonio Rescifina



3569

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

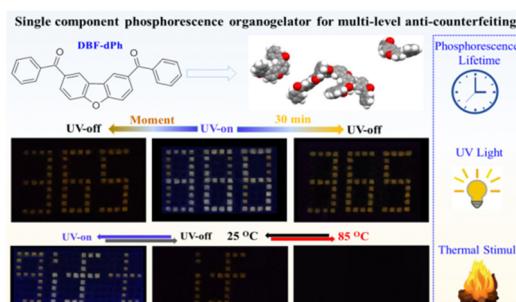
Jiajun Gong, Zhicheng Yao, Qimin Peng, Huizi Tang, Wenhao Han and Shimou Chen*



3577

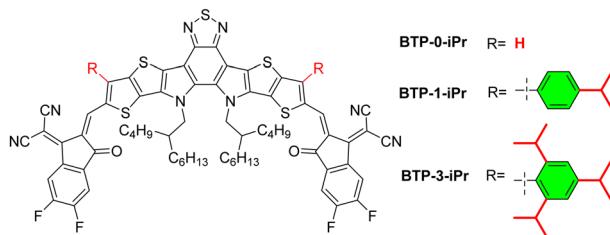
From elementary to advanced: rational design of single component phosphorescence organogels for anti-counterfeiting applications

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



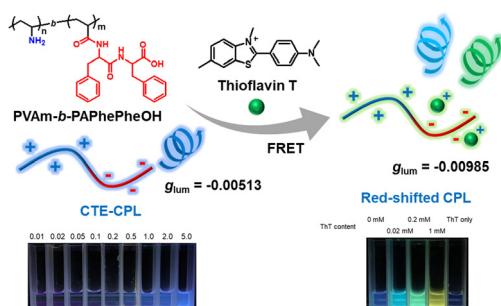
RESEARCH ARTICLES

3587

**Aromatic side chain manipulation in A-DA'D-A type acceptors for organic photovoltaics**

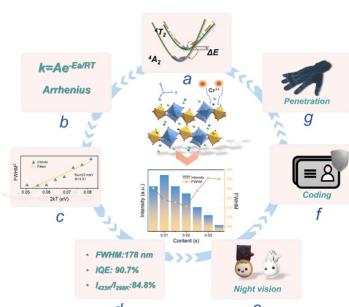
ChengLong Wen, Jun Yuan, Zhiguo Zhang, Dongxu Li, Yuqian Zhou, Wanqiang Liu, Zaichun Zhou, Yungui Li, Lihui Jiang* and Yingping Zou

3596

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

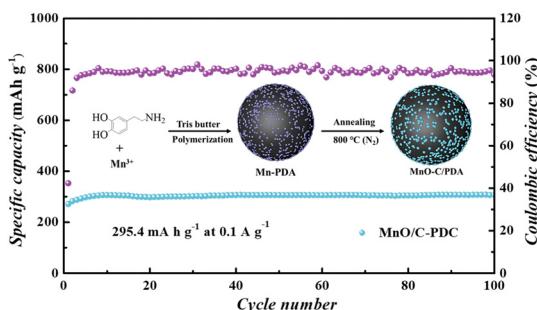
Ryo Yonenuma, Aoi Takenaka, Tamaki Nakano and Hideharu Mori*

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*

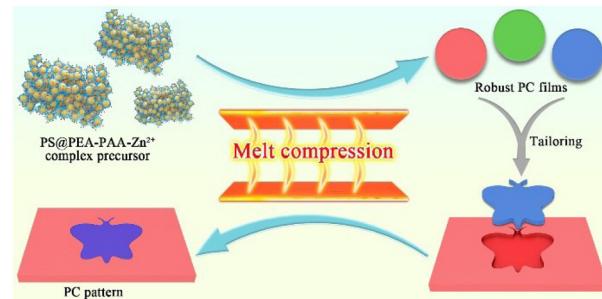


RESEARCH ARTICLES

3624

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

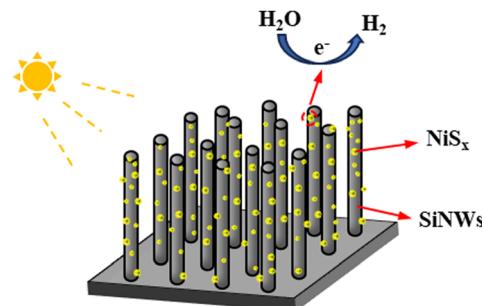
Jiahao Li, Tongling Yu, Chengcai Wu, Qianyao Fang and Xin Su*



3634

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

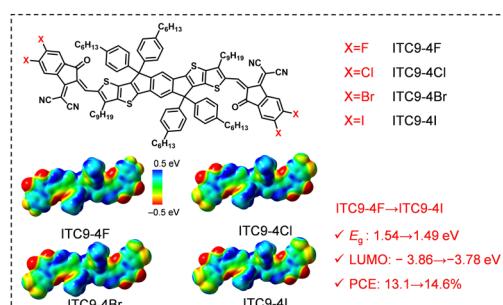
Junjie Wang, Bo Wang, Xinxing He, Jun Lv,* Zhiyong Bao, Jiewu Cui, Guangqing Xu* and Wangqiang Shen*



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, Feiwei 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*

