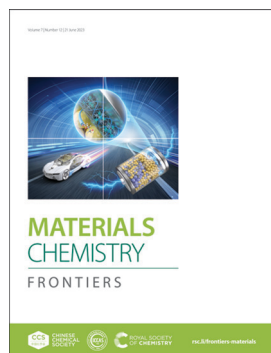


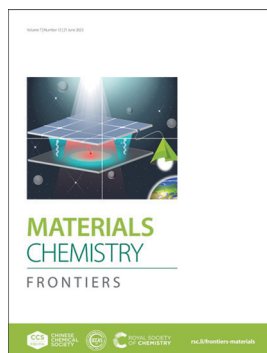
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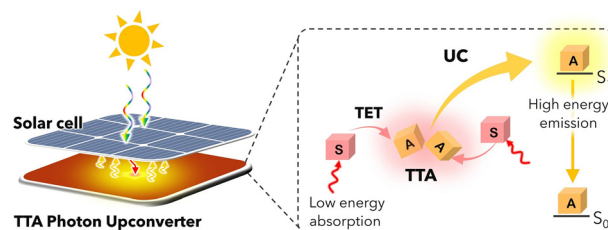
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REVIEWS

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Triplet–triplet annihilation mediated photon upconversion solar energy systems

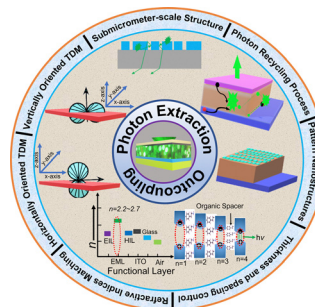
Lukas Naimovičius, Pankaj Bharmoria* and Kasper Moth-Poulsen*



2316

Light outcoupling strategies in oriented perovskite light-emitting-diodes: recent trends, opportunities, and challenges toward innovation

Muhammad Imran Saleem, Rino Choi* and Jeong-Hwan Lee*



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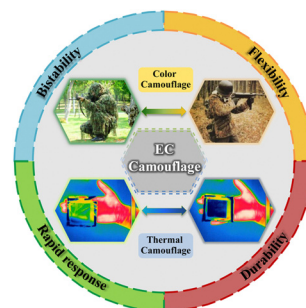


REVIEWS

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Recent advances in electrochromic materials and devices for camouflage applications

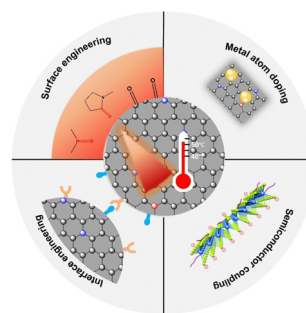
Haichang Fu, Ling Zhang, Yujie Dong, Cheng Zhang* and Weijun Li*



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Tuning the photothermal properties of carbon dots in the deep-red to near-infrared wavelength regions for tumor therapy

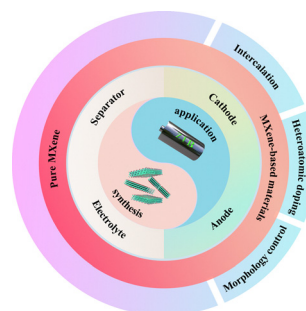
Tesen Zhang, Jun Wu, Zikang Tang* and Songnan Qu*



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Recent advances in two-dimensional MXenes for zinc-ion batteries

Yunfei Shen, Heng Lv and Long Chen*

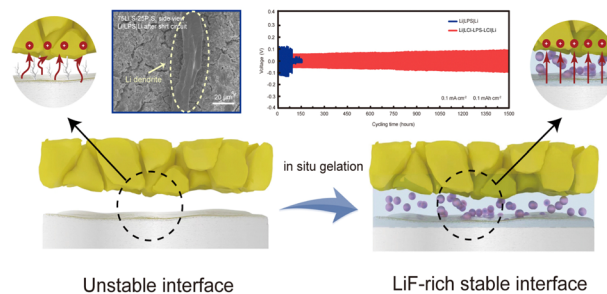


RESEARCH ARTICLES

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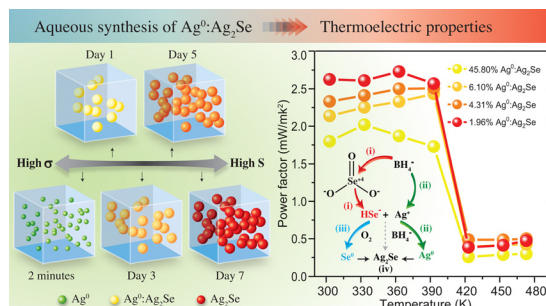
Fast and stable charge transfer at the lithium-sulfide (electrolyte) interface via an *in situ* solidified Li⁺-conductive interlayer

Ya-Hui Wang, Xu-Sheng Zhang, Cai-Cai Li, Hao Zeng, Zhe Chen, Liang Zhang, Jin-Chi Zheng, Yuan Luo, Sen Xin* and Yu-Guo Guo



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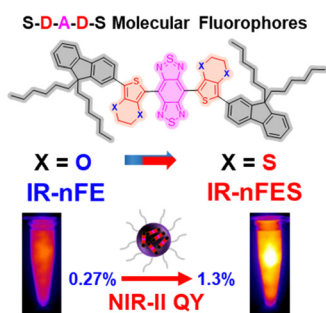
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Compositionally tuned hybridization of n-type $\text{Ag}^0:\text{Ag}_2\text{Se}$ under ambient conditions towards excellent thermoelectric properties at room temperature

Si Yin Tee,* Daniel Ponsford, Xian Yi Tan, Xiaobai Wang, Chee Leng Lay, Coryl Jing Jun Lee, Xi Ping Ni, Debbie Hwee Leng Seng, Warintorn Thitsartarn, Guijian Guan and Ming-Yong Han*

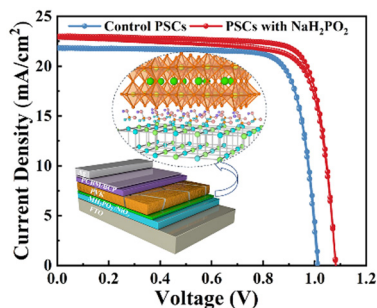
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3,4-Ethylenedithio thiophene donor for NIR-II fluorophores with improved quantum yields

Chunchen Liu, Xinyuan Wang, Xingfu Zhu, Rui Ma, Qihui Lin* and Yongye Liang*

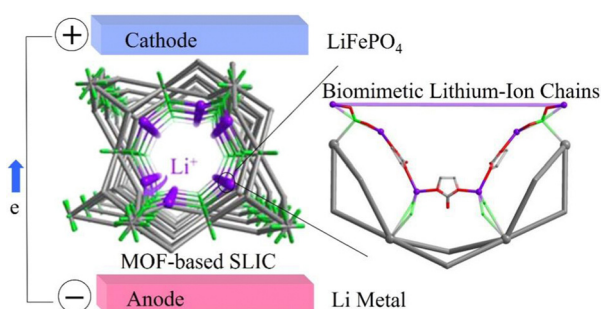
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Interlayer engineering via alkaline hypophosphates for efficient and air-stable perovskite solar cells

Jin Peng, Qiaofeng Wu, Hongming Hou, Taotao Hu, Yue Huang, Xudong Cai, Wenjie Luo, Xin Chen and Hua Yu*

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Pseudo single lithium-ion conductors enabled by a metal-organic framework with biomimetic lithium-ion chains for lithium metal batteries

Jian-Qiang Shen, Ying-Li Song, Chun-Ting He, Chen Zhang, Xing Lu, Zhikai Qi, Yunfeng Lu* and Xian-Ming Zhang*

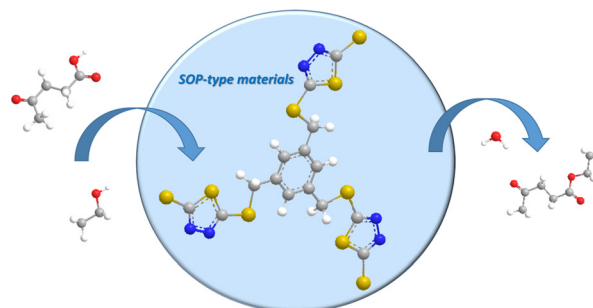


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Sulfide organic polymers as novel and efficient metal-free heterogeneous Lewis acid catalysts for esterification reactions

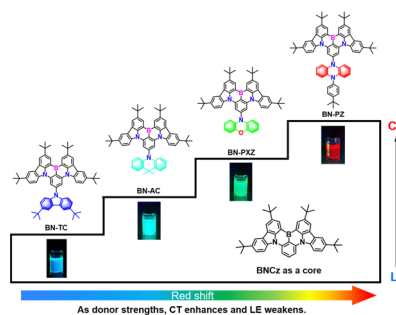
M. Melero, U. Díaz* and F. X. Llabrés i Xamena*



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Red-shift emission and rapid up-conversion of B,N-containing electroluminescent materials via tuning intramolecular charge transfer

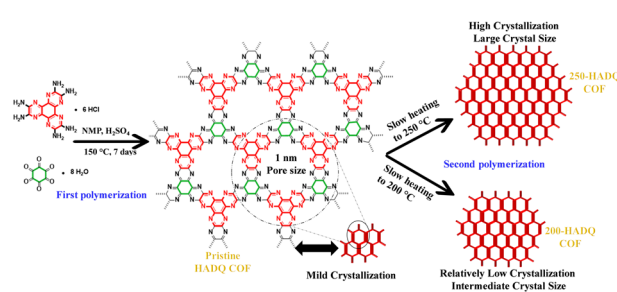
Yi-Hui He, Feng-Ming Xie,* Hao-Ze Li, Kai Zhang, Yang Shen, Feng Ding, Cheng-Yuan Wang, Yan-Qing Li* and Jian-Xin Tang*



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Boosting the crystallinity of novel two-dimensional hexamine dipyrazino quinoxaline-based covalent organic frameworks for electrical double-layer supercapacitors

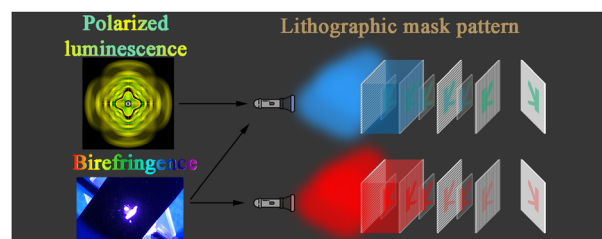
Rashid Iqbal,* Muhammad Kashif Majeed, Arshad Hussain, Aziz Ahmad, Muhammad Ahmad, Bushra Jabar, Abdul Rehman Akbar, Sajjad Ali, Sajid Rauf and Adil Saleem*



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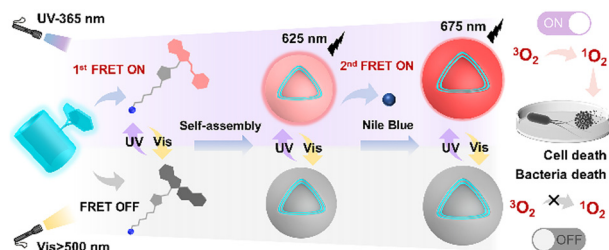
Birefringence and polarized luminescence of a manganese(II) chloride–triphenylphosphine oxide compound: application in LEDs and photolithography

Alexey Berezin



RESEARCH ARTICLES

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A novel photoswitchable AIE-active supramolecular photosensitizer with synergistic enhancement of ROS-generation ability constructed by a two-step sequential FRET process

Xueqi Tian, Shengke Li, Krishnasamy Velmurugan, Zhihang Bai, Qian Liu, Kaiya Wang, Minzan Zuo* and Xiao-Yu Hu*

CORRECTION

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Correction: Fluorescence resonance energy transfer enhanced photothermal and photodynamic antibacterial therapy post a single injection

Lei Xue, Qing Shen, Tian Zhang, Yibin Fan, Xiaogang Xu, Jinjun Shao,* Dongliang Yang, Wenli Zhao, Xiaochen Dong* and Xiaozhou Mou*

