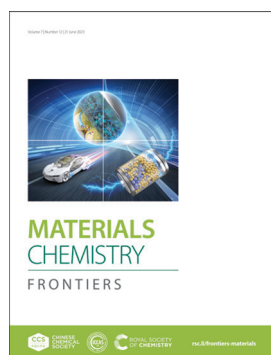


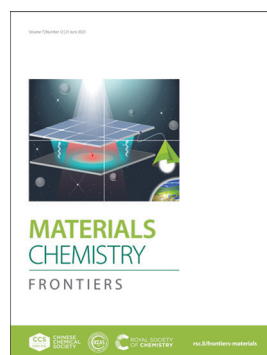
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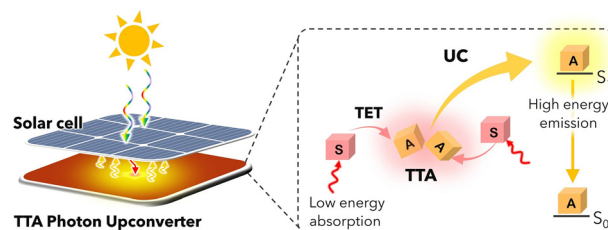
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#### Triplet–triplet annihilation mediated photon upconversion solar energy systems

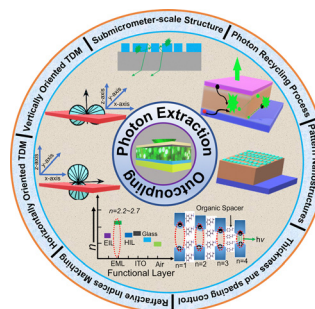
Lukas Naimovičius, Pankaj Bharmoria\* and Kasper Moth-Poulsen\*



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#### 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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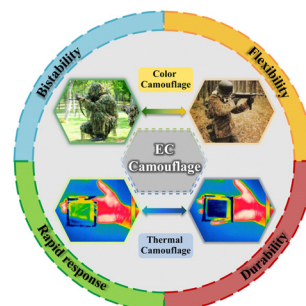


## REVIEWS

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## Recent advances in electrochromic materials and devices for camouflage applications

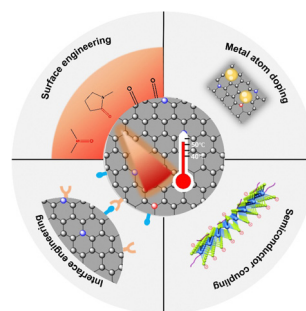
Haichang Fu, Ling Zhang, Yujie Dong, Cheng Zhang\* and Weijun Li\*



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

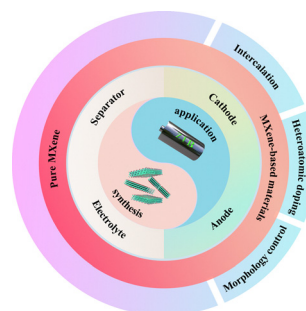
Tesen Zhang, Jun Wu, Zikang Tang\* and Songnan Qu\*



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

Yunfei Shen, Heng Lv and Long Chen\*

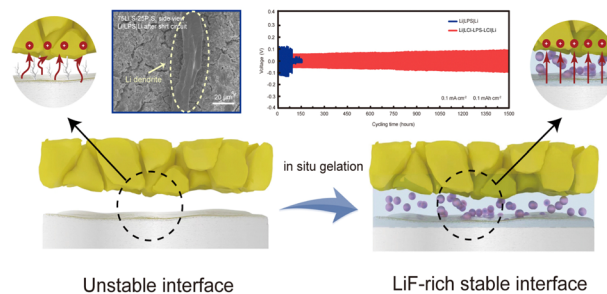


## RESEARCH ARTICLES

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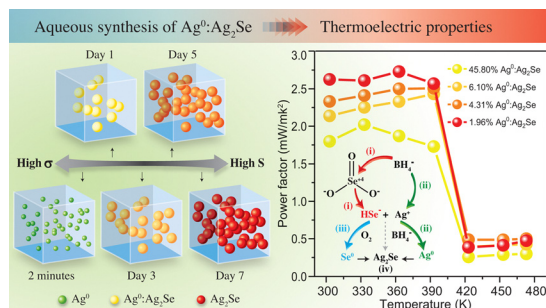
Fast and stable charge transfer at the lithium-sulfide (electrolyte) interface via an *in situ* solidified Li<sup>+</sup>-conductive interlayer

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



## RESEARCH ARTICLES

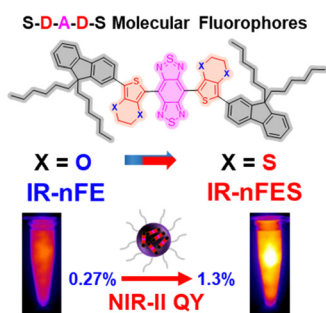
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### Compositionally tuned hybridization of n-type $\text{Ag}^0:\text{Ag}_2\text{Se}$ under ambient conditions towards excellent thermoelectric properties at room temperature

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\*

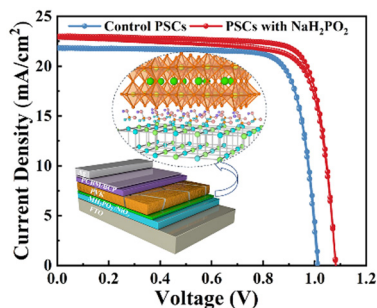
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### 3,4-Ethylenedithio thiophene donor for NIR-II fluorophores with improved quantum yields

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

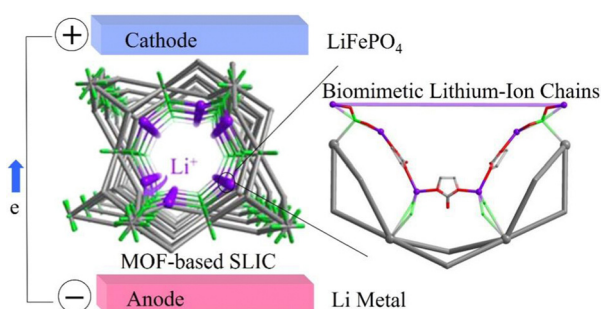
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### Interlayer engineering via alkaline hypophosphates for efficient and air-stable perovskite solar cells

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\*

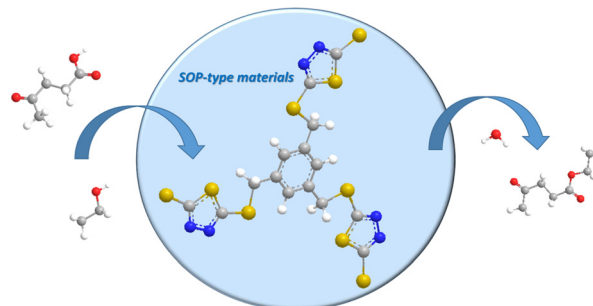


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## Sulfide organic polymers as novel and efficient metal-free heterogeneous Lewis acid catalysts for esterification reactions

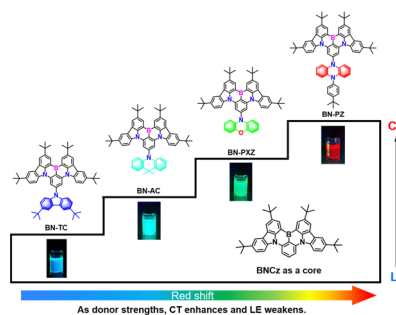
M. Melero, U. Díaz\* and F. X. Llabrés i Xamena\*



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

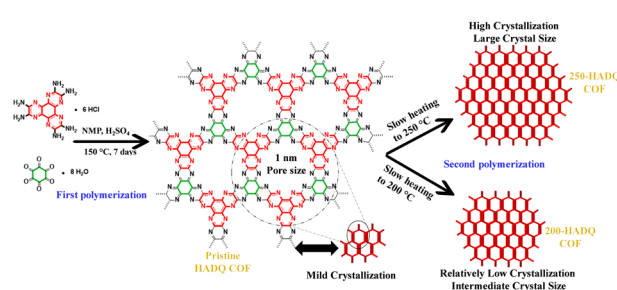
Yi-Hui He, Feng-Ming Xie,\* Hao-Ze Li, Kai Zhang, Yang Shen, Feng Ding, Cheng-Yuan Wang, Yan-Qing Li\* and Jian-Xin Tang\*



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

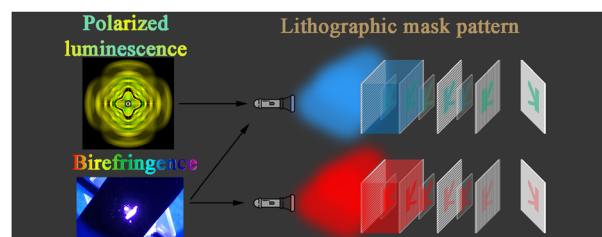
Rashid Iqbal,\* Muhammad Kashif Majeed, Arshad Hussain, Aziz Ahmad, Muhammad Ahmad, Bushra Jabar, Abdul Rehman Akbar, Sajjad Ali, Sajid Rauf and Adil Saleem\*



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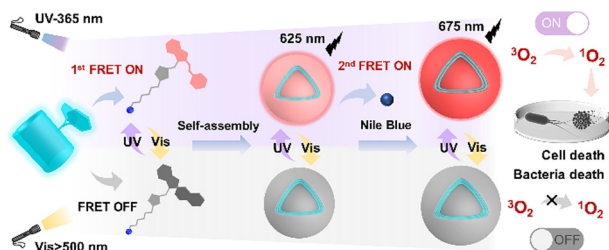
## Birefringence and polarized luminescence of a manganese(II) chloride–triphenylphosphine oxide compound: application in LEDs and photolithography

Alexey Berezin



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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\*

