

Journal of Materials Chemistry C

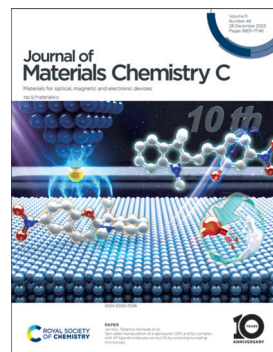
Materials for optical, magnetic and electronic devices

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Cover

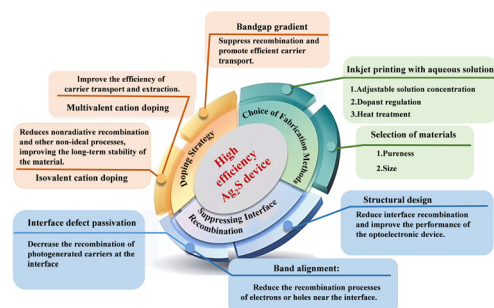
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REVIEWS

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Silver sulfide thin film solar cells: materials, fabrication methods, devices, and challenges

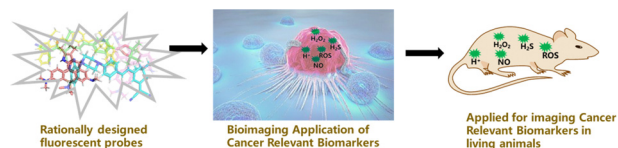
Weiwei Dong, Junjie Fu,* Jin Yang, Shu Ren,
Haonan Zhu, Yusen Wang, Jianchao Hao,
Yange Zhang and Zhi Zheng*



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Recent progress of organic fluorescent molecules for bioimaging applications: cancer-relevant biomarkers

Chun Zhang, Yi-Tao Sun, Suyu Gan, Aimin Ren,
Slieman Milaneh, Da-Jun Xiang* and Wen-Long Wang*



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Journal of Materials Chemistry C covers materials with applications in optical, magnetic and electronic devices.

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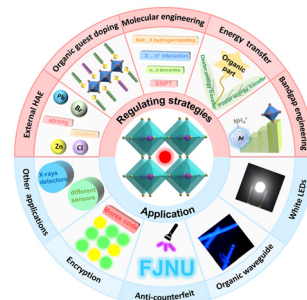


REVIEWS

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Regulation and application of organic luminescence from low-dimensional organic–inorganic hybrid metal halides

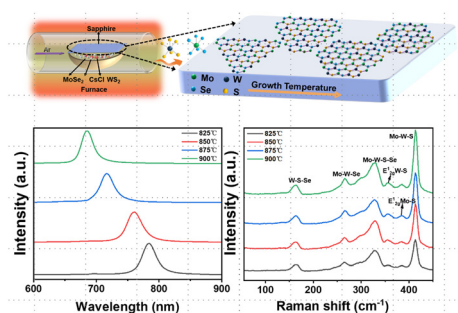
Shanshan Gao, Shuaiqi Wang, Junyan Wu* and Zhenghuan Lin*



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Synthesis of millimeter-sized $\text{Mo}_x\text{W}_{(1-x)}\text{S}_2\text{Se}_{2(1-y)}$ monolayer alloys with adjustable optical and electrical properties and their magnetic doping

You Li, Yiwen Wang, Sabir Hussain, Liming Xie and Junjie Qi*

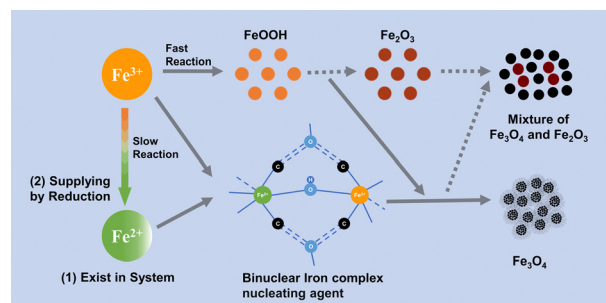


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Magnetic response of photonic crystals based on nucleating agents of binuclear complexes

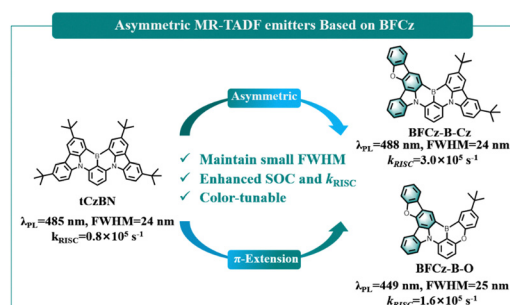
Mengdong Tu, Mengying Xu, Xi Wei, Depeng Gong, Jun Chen and Chaocan Zhang*



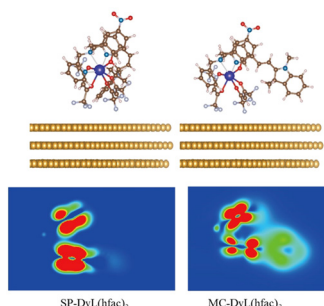
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Asymmetric strategy based on 5*H*-benzofuro-[3,2-*c*]carbazole enables efficient narrowband multi-resonance thermally activated delayed fluorescence emitters

Xiangan Song, Shaogang Shen, Shengnan Zou, Fengyun Guo, Shiyong Gao, Ying Wang* and Yong Zhang*



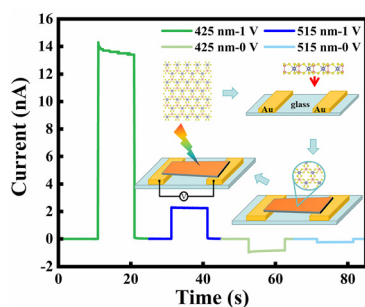
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Spin state manipulation of a spiropyran (SP) and Dy complex with SP ligand molecules on Au(111) by scanning tunneling microscopy

Jie Hou,* Dongzhe Li, Lucie Norel, Stéphane Rigaut, Zhipeng Wang, Lei Shan and Tadahiro Komeda*

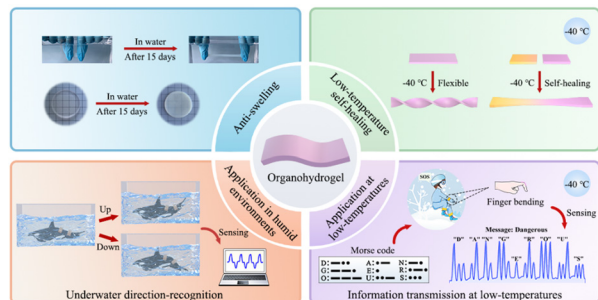
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A high-performance self-powered photodetector based on SnP₂S₆ in the visible light region

Shuxian Wang, Jiaming Song,* Linghao Zong, Juanjuan Yang, Bingda Li, Feng Teng, Peng Hu, Haibo Fan and Xin Zhao

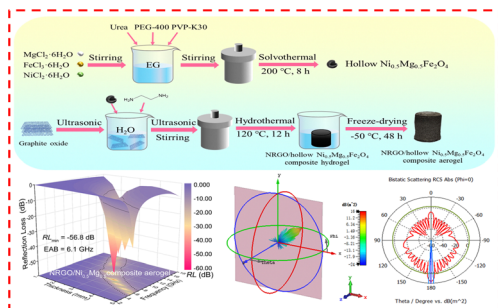
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A wet-resistant and low-temperature self-healing organohydrogel sensor towards direction-recognition and information transmission in extreme environments

Enke Feng,* Xiaoqin Li, Mengzhen Zhang, Ying Li and Dailian Wang*

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Construction of a hollow nickel–magnesium ferrite decorated nitrogen-doped reduced graphene oxide composite aerogel for highly efficient and broadband microwave absorption

Ruiwen Shu,* Leilei Xu and Ziwei Zhao

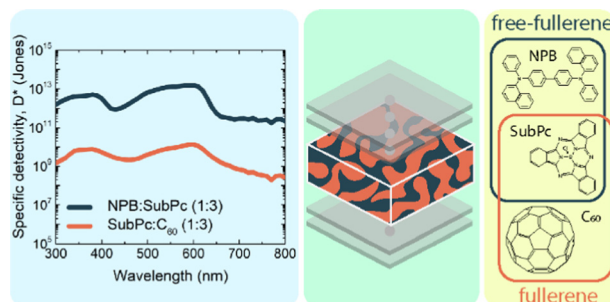


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Vacuum-deposited organic photodetectors utilizing non-fullerene acceptors for enhanced detectivity in the green visible light spectrum

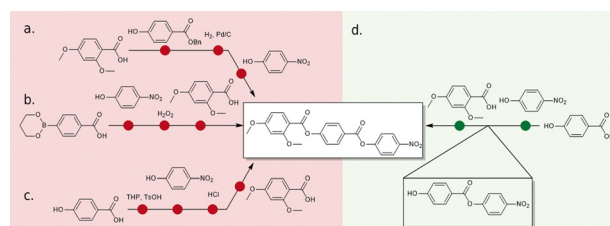
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New RM734-like fluid ferroelectrics enabled through a simplified protecting group free synthesis

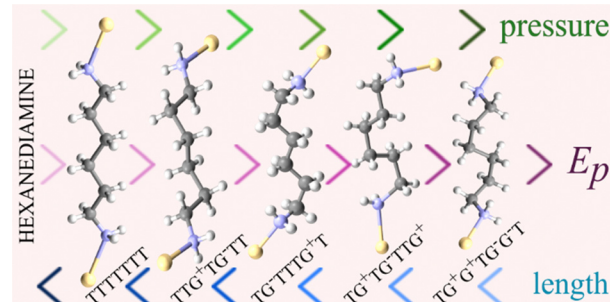
Calum J. Gibb* and Richard J. Mandle



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Engineering anomalous elastic properties of coordination polymers and their amorphization by employing flexible linkers

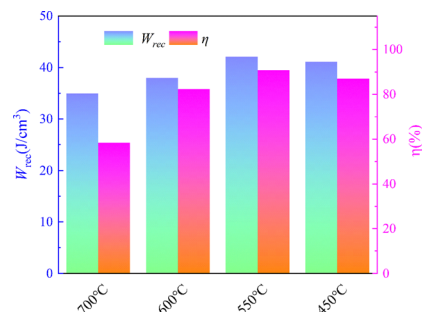
Aleksandra Pótrolniczak, Szymon Sobczak and Andrzej Katrusiak*



17003

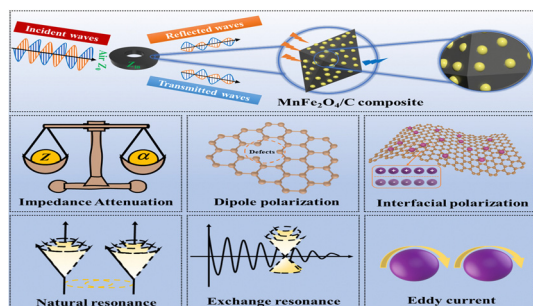
Improved energy storage performance in flexible (PbLa)ZrO₃ thin films via nanocrystalline engineering

Chao Yin, Tiandong Zhang,* Changhai Zhang, Chang Kyu Jeong, Geon-Tae Hwang and Qingguo Chi*



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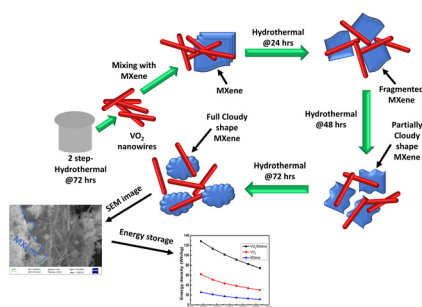
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Fabrication of iron manganese metal–organic framework derived magnetic $\text{MnFe}_2\text{O}_4/\text{C}$ composites for broadband and highly efficient electromagnetic wave absorption

Ruiwen Shu,* Jinling Zhang, Shuai Liu and Zaigang Luo

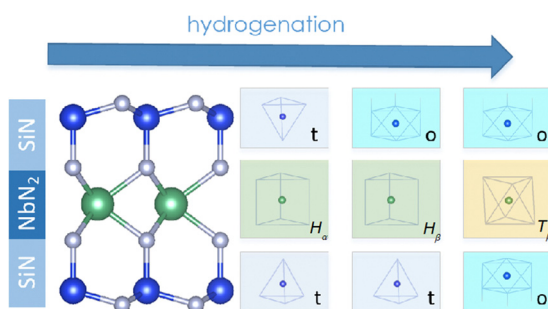
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Blending of a 3D cloud-like morphology with a 1D structure in a VO_2/MXene nanocomposite to enhance the charge storage capability

Niraj Kumar,* M. N. M. Ansari, Sanjay Upadhyay,* Vikash Gajraj, Chetana S., Naveen Chandra Joshi, Surajudeen Sikiru and Arijit Sen*

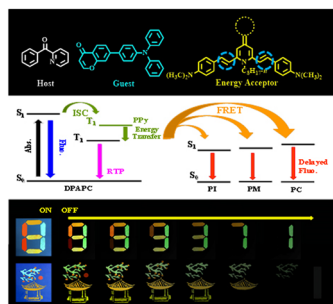
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Tunable structural phases and electronic properties of group V MSi_2N_4 ($\text{M} = \text{V}, \text{Nb}, \text{Ta}$) nanosheets via surface hydrogenation: a first-principles study

Yanli Wang* and Yi Ding*

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Three-component color-tunable room temperature afterglow doped materials through Förster-resonance energy transfer

Huaiying Huang, Yitian Jiang, Miao Chang Liu,* Wenbo Dai, Yunxiang Lei, Yan Guan,* Qiuping Ding, Huayue Wu and Xiaobo Huang*

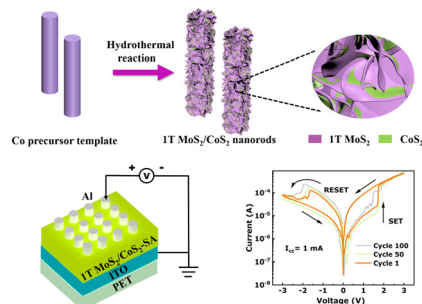


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1T MoS₂/CoS₂ heterostructures enabling enhanced resistive switching behavior in sodium alginate-based flexible memristors

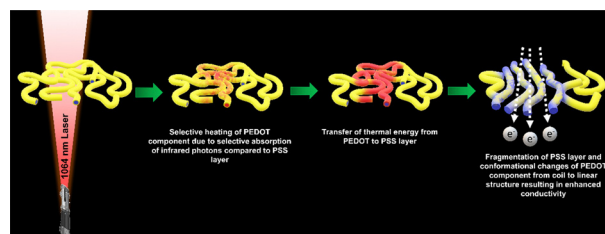
Zipan Jiao, Xiaoyan Lan, Xinglan Zhou, Kunjie Wang, Haoran Zong, Peng Zhang* and Benhua Xu*



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Interface engineering towards high conductivity of a model organic plastic micro-surface by microbubble lithography

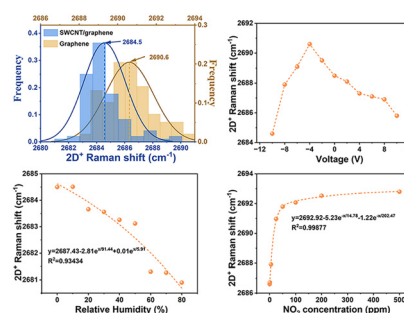
Anand Dev Ranjan, Rakesh Sen, Rahul Vaippully, Sumeet Kumar, Soumya Dutta, Basudev Roy,* Goutam Dev Mukherjee, Soumyajit Roy* and Ayan Banerjee*



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External condition-induced interfacial charge transfer in single-walled carbon nanotube/graphene van der Waals heterostructures

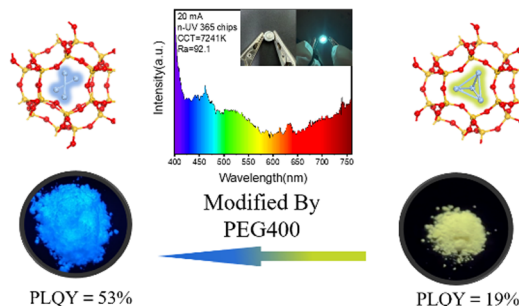
Huan Yin, Ruxuan Zhang, Tian Tian, Zhi Yang, Nantao Hu, Yafei Zhang and Yanjie Su*



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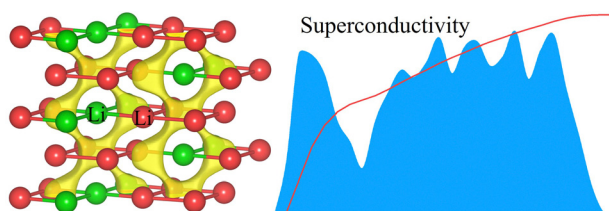
Emission-tunable silver clusters constrained within EMT zeolite

Jinping Yuan, Qianrui Li, Chunmei Yue, Na Wang, Peng Li* and Huanrong Li*



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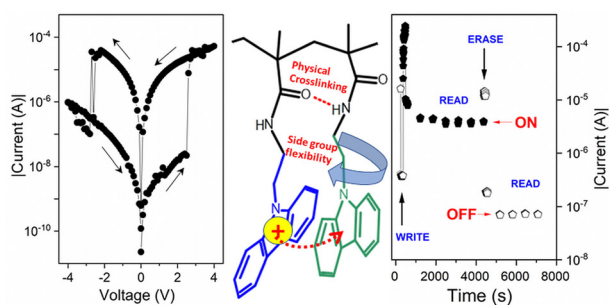
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Superconducting $\text{Li}_{11}\text{Sb}_2$ electride at ambient pressure

Yaping Zhao, Jiayu Gao, Xiaohua Zhang,* Shicong Ding, Yong Liu and Guochun Yang*

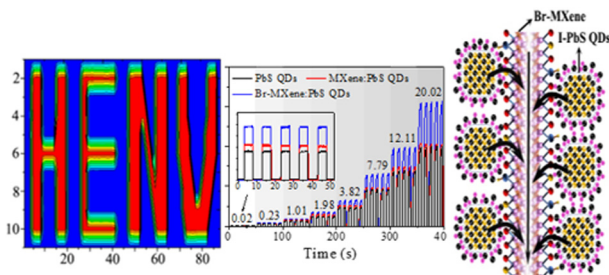
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Rewritable resistive memory effect in poly[N-(3-(9H-carbazol-9-yl)propyl)-methacrylamide] memristor

Yadu Ram Panthi, Jiří Pflieger,* Drahomír Výprachtický, Ambika Pandey, Muhammed Arshad Thottappali, Ivana Šeděnková, Magdalena Konefat and Stephen H. Foulger

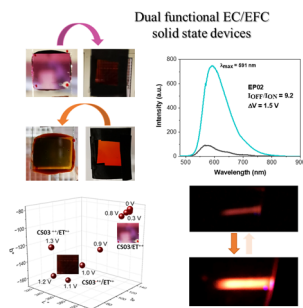
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A hybrid quantum dot:MXene bulk heterojunction for an efficient infrared self-powered photodetector

Junyi Huang, Jianfeng Ding, Furui Tan,* Yueyue Gao, Xiayao Lu, Chen Dong, Gentian Yue, Xiaobao Xu* and Liming Ding*

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Reversible vis-NIR electrochromic/electrofluorochromic switching in dual-functional devices modulated by different benzothiadiazole-arylamine anodic components

Giuseppina Anna Corrente,* Dora A. González, Ece Aktas, Agostina Lina Capodilupo, Francesco Ruighi, Gianluca Accorsi, Daniela Imbardelli, Cristina Rodriguez-Seco, Eugenia Martinez-Ferrero, Emilio Palomares and Amerigo Beneduci*

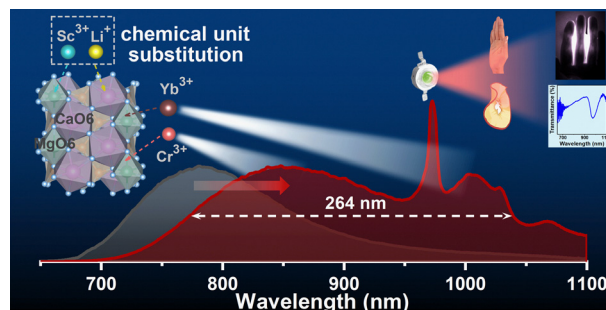


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Ultra-broadening near-infrared emission of Cr³⁺-activated pyroxene phosphors via chemical unit substitution and Yb³⁺ co-doping

Shuofeng Sun, Yuming Yang, Renfei Zhang, Qinan Mao,*
Lang Pei, Junhua Xi, Yang Ding, Yiwen Zhu, Hua Yu and
Jiasong Zhong*



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Skin-inspired environment-tolerant organohydrogel sensors with balanced mechanical and electrical properties for human motion and physiological signal monitoring

Wenshuai Zhang, Lingxiao Xu,* Cui Lv, Peipei Sun* and
Lei Shi*

