

Journal of Materials Chemistry C

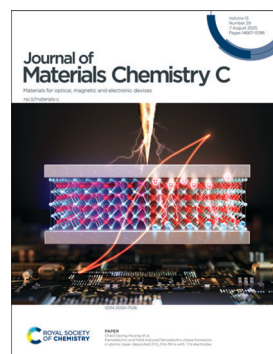
Materials for optical, magnetic and electronic devices

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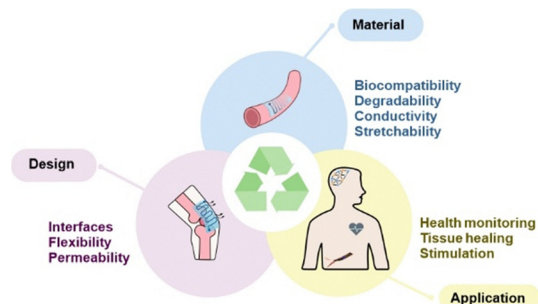
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Wearable and implantable transient bioelectronics

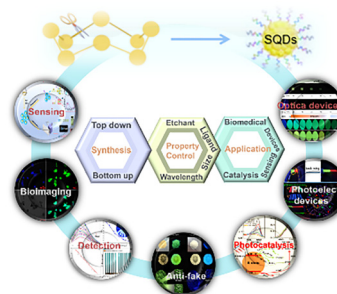
Yuwen Wang, Chong Wu, Yaokang Zhang,* Shiwei Du*
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Emerging sulfur quantum dots: from synthesis strategies to optical property engineering towards multidisciplinary applications

Jundan Tang, Zhifang Liu,* Lihua Shen,* Wei Fu* and
Xian Li*



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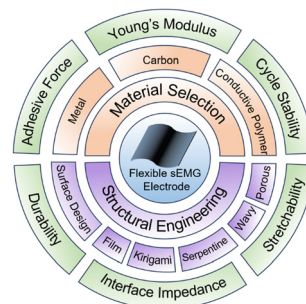


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Recent advances in materials and structural designs for flexible surface electromyography electrodes

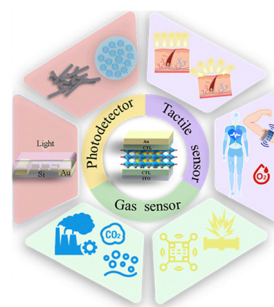
Zhengjie Hou, Yuheng Jin, Cheng Qian, Jingyu Zhu, Tao Zhang, Jiansheng Wu, Sheng Li,* Binghua Zou* and Fengwei Huo*



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Perovskite materials empower sensors and batteries: environmental health monitoring and flexible wearable innovation

Bixin Li, Li Qiao, Hao Yang,* Yanlong Wang,* Weidan Gu and Bin Du*

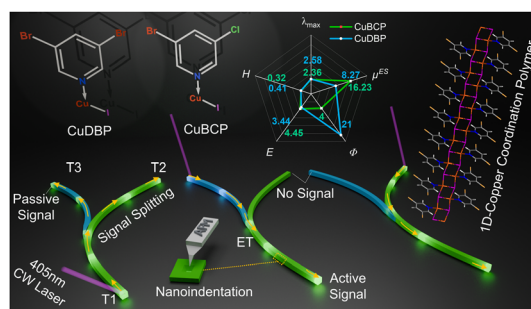


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Halogen-assisted colour modulation in a flexible copper coordination polymer crystal-based hybrid photonic splitter

Ankur Khapre, Vinaya Durga Chebrolu, Preetika Rajasekar, Biswajit Kumar Barman and Rajadurai Chandrasekar*

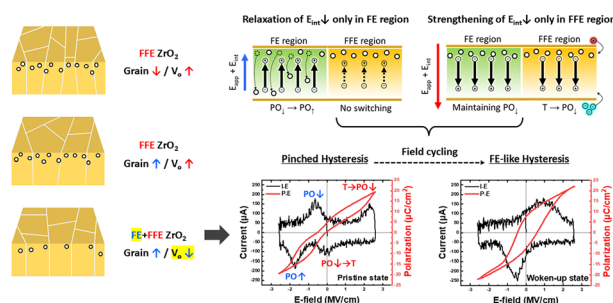


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Ferroelectric and field-induced ferroelectric phase formation in atomic-layer-deposited ZrO_2 thin films with TiN electrodes

Jae Hee Song, Kyung Do Kim, Jonghoon Shin, Seong Jae Shin, Suk Hyun Lee, Seung Yong Byun, In Soo Lee, Han Sol Park, Yeon Jae Kim, Hyun Woo Nam and Cheol Seong Hwang*



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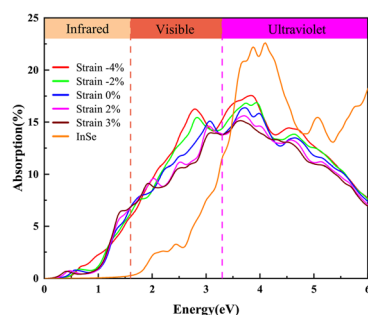
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Natural waxes from plant and animal origin as dielectrics for low-voltage organic field effect transistors

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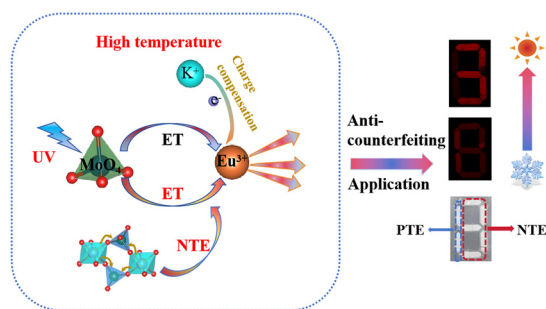
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Strain-responsive PH-SiBiX monolayers: computational design of multifunctional 2D materials for piezotronic and optoelectronic applications

Lei Yang, Jin Gao, Rongrong Chen, Desheng Xue, Chenglong Jia and Kun Tao*

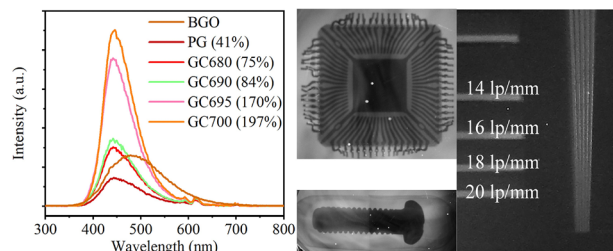
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Tuning luminescence thermal quenching performance of $K_xMg_xSc_{1.95-x}Mo_3O_{12}:5\%Eu^{3+}$ phosphor via synergistic negative thermal expansion and charge compensation effects

Wenshen Fan, Qi Miao, Yuanbing Mao,* Yongjie Wang,* Li Li, Shogo Kawaguchi, Erjun Liang and Qilong Gao*

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A transparent $YPO_4:Eu^{2+}$ glass-ceramic scintillator for high-resolution X-ray imaging

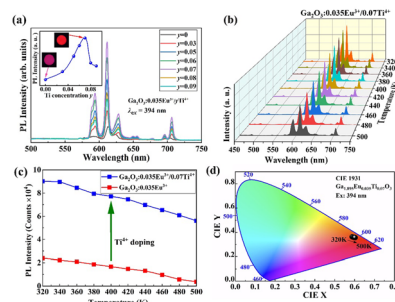
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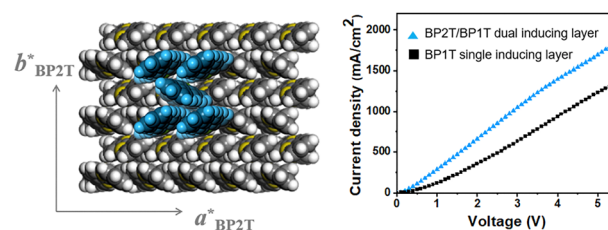
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Crystalline organic thin films for crystalline OLEDs (III): weak epitaxy growth of phenanthroimidazole derivatives with a dual inducing layer

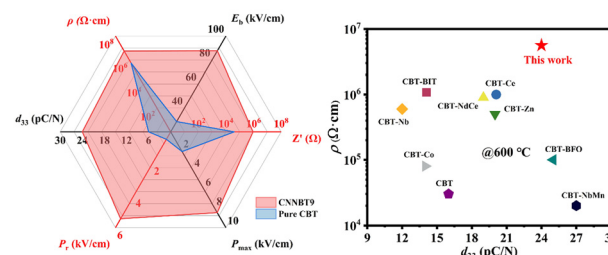
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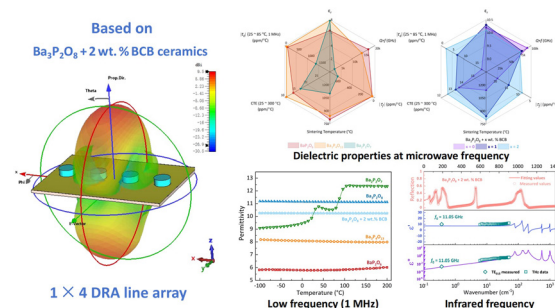
Mingxin Lu, Xin Xu,* Yan Fang, Xiaoyu Xu, Xiaoying Feng, Haoqi Xu, Jie Xu and Feng Gao*



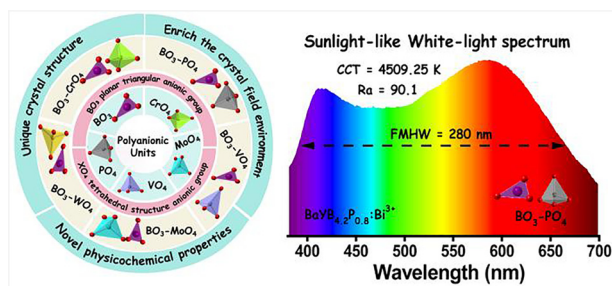
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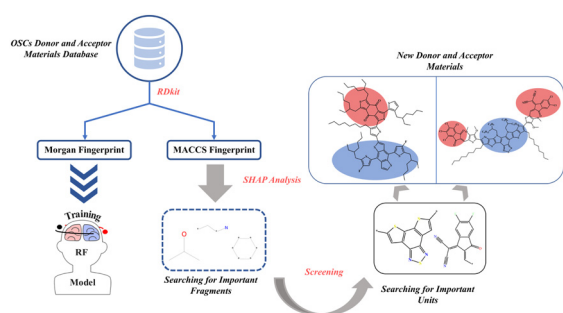
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Well-designed sunlight-like Bi³⁺-activated white-light phosphor for general lighting

Xujiang Liu, Xiaole Zhang, Lijuan Wu and Pengpeng Dai*

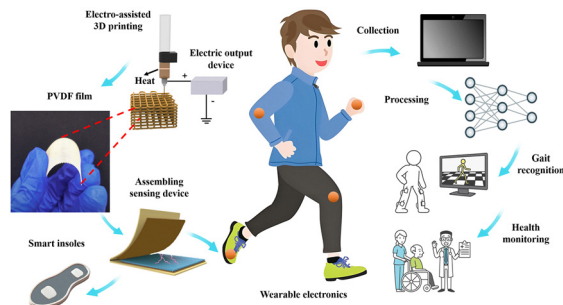
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High throughput molecular design of electron donors and non-fullerene acceptors using machine learning combined with substructure importance

Cai-Rong Zhang,* Long-Fei Lv, Ming Li, Xiao-Meng Liu, Ji-Jun Gong, Zi-Jiang Liu, You-Zhi Wu and Hong-Shan Chen

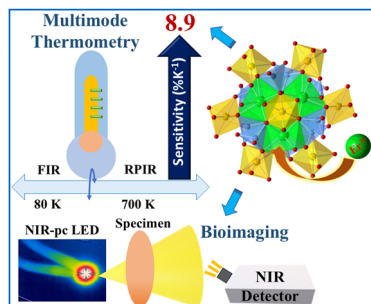
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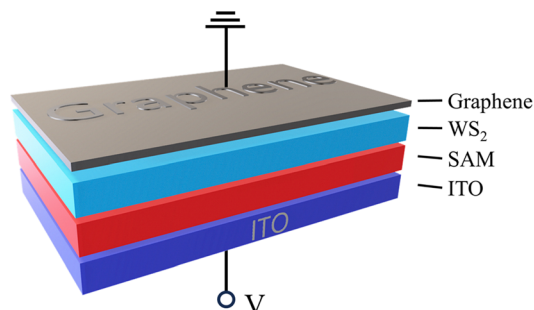


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An ultrathin, transparent, flexible, and self-powered photodetector based on two-dimensional materials and a self-assembled polar-monolayer

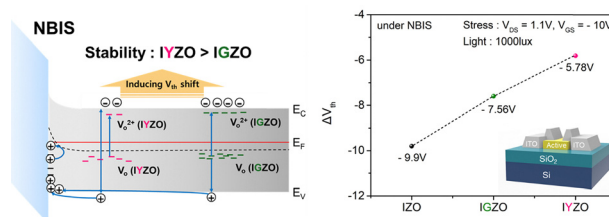
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14910

Enhanced electrical properties and stability of solution processed IYZO thin film transistors by controlling deep level oxygen vacancies

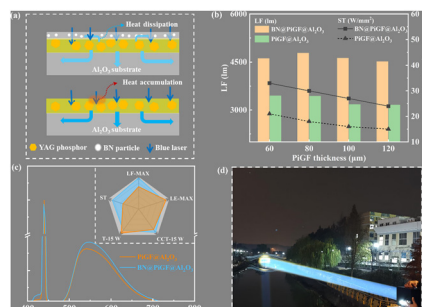
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Development of a double-sided heat-conducting BN@PiGF@Al2O3 color converter for high-brightness laser lighting

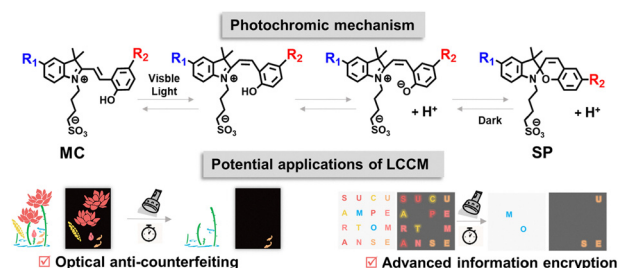
Tianyang Xu, Hongjin Zhang, Mingxi Liang, Jiuzhou Zhao, Xin Liu,* Mingxiang Chen and Yang Peng*



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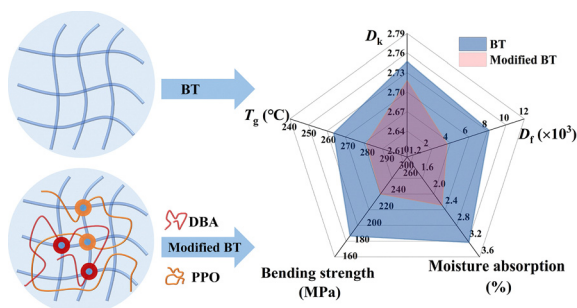
Visible-light-driven photoresponsive color-changing materials with dual light signal outputs and enhanced performance for advanced applications

Ji Fan, Zhaofeng Zheng, Hongqi Li, Zirun Zhan, Wei Wu,* Bolin Ji, Hong Xu, Yi Zhong, Linping Zhang and Zhiping Mao*



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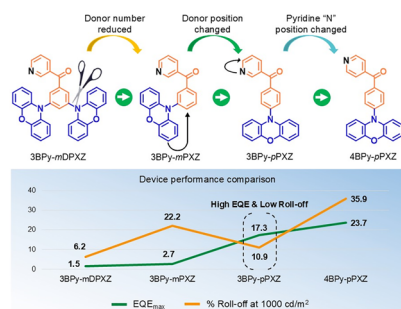
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Optimized dielectric performance in bismaleimide–triazine resin *via* a dual-modification strategy for high-frequency electronic packaging

Hao Wang, Kang Luo, Enzhu Li, Bing Tang and Ying Yuan*

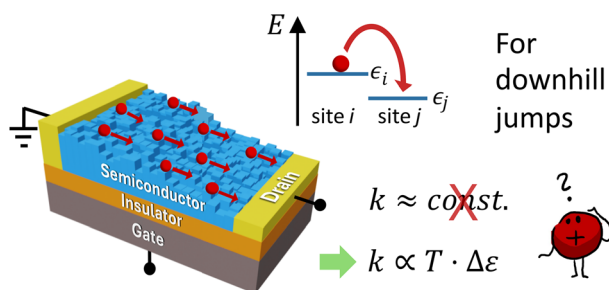
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Gyana Prakash Nanda, Rajan Suraksha, Bahadur Sk, Thamodharan Viswanathan and Pachaiyappan Rajamalli*

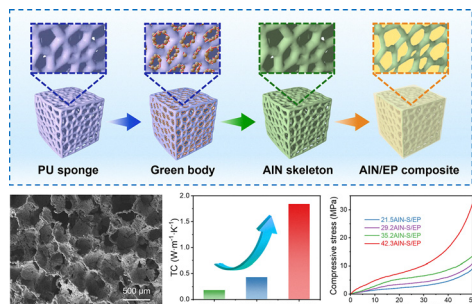
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Magdalena S. Dörfler, Heinz Bässler, Andrey Kadashchuk, Harald Oberhofer and Anna Köhler*

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In situ construction of continuous porous AlN skeletons towards enhanced thermal conductivity of epoxy composites

Chang Sun, Chang Yu, Muzi Liao, Yunqi Yuan, Baokai Wang, Mengyang Niu, Weiwei Xuan, Ming Yue and Qi Wang*

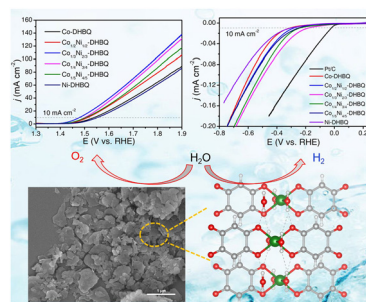


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Constructing bimetallic conjugated coordination polymers as efficient electrocatalysts for water splitting

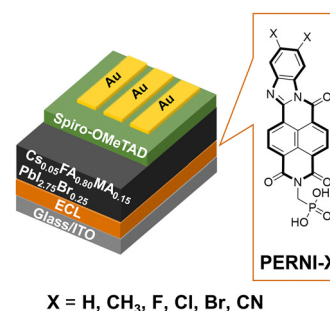
Jia Du,* Xueguo Liu, Yiming Wu, Xin Wei, Zekai Wu, Jingyuan Jia, Haiyang Li, Bingke Li and Keliang Wu



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Asymmetric perinone-based electron-collecting monolayer materials for n-i-p perovskite solar cells

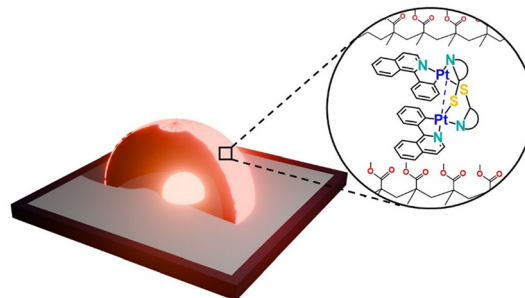
Julius Petrulevicius, Minh Anh Truong, Maryte Daskeviciene, Giedre Bubniene, Shota Hira, Yasuko Iwasaki, Tadas Malinauskas, Atsushi Wakamiya* and Vytautas Getautis*



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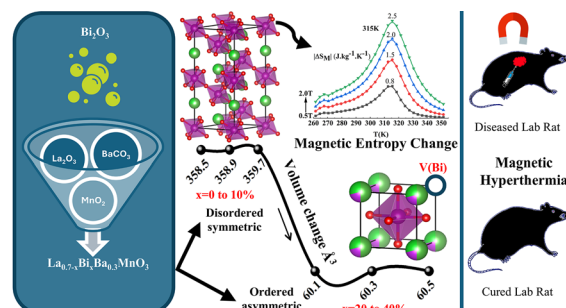
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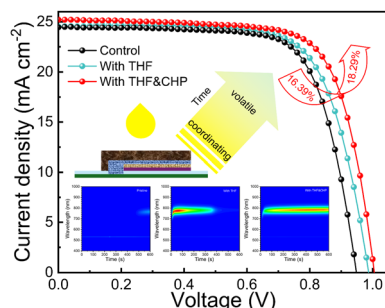
Rhombohedral-to-cubic structural phase transition in (LaBi)_{0.7}Ba_{0.3}MnO₃ manganites: an investigation on the "Cause and Effect" and magneto caloric response

Lozil Denzil Mendonca, El Kebir Hlil, Mudiarysu Subrahmanya Murari and Mamatha D. Daivajna*



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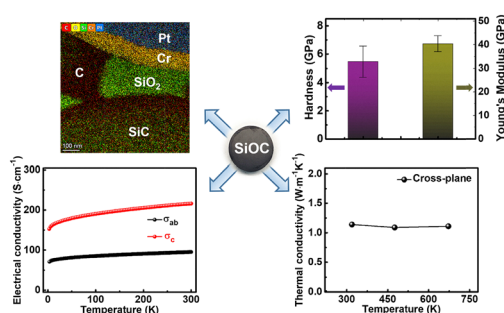
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Efficient printable mesoscopic perovskite solar cells without post-thermal annealing processes by introduction of a volatile co-solvent

Wei Huang Yang, Yiwen Chen, Qin Zeng, Changqing Chen, Wenfeng Liu, Yu Huang, Yang Zhang, Dongjie Wang, Runna Gou* and Jian Zhang*

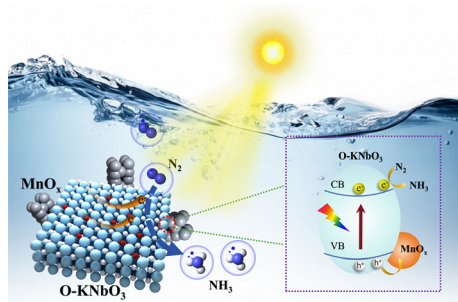
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A mechanically robust, high electrically and low thermally conducting silicon oxycarbide ceramic composite by spark plasma sintering

Abhijit Biswas,* Sudaice Kazibwe, Shuo Yang, Tymofii S. Pieshkov, Advait V. Rau, Shreyasi Chattopadhyay, Kathy Lu, Ching-Wu Chu, Tobin Filleter,* Liangzi Deng* and Pulickel M. Ajayan*

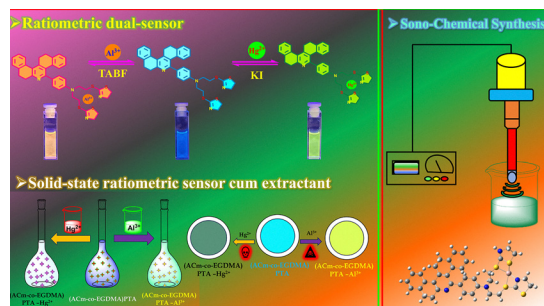
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Enhanced photocatalytic nitrogen fixation over MnO_x-modified O-KNbO₃: impact of oxygen vacancies and MnO_x loading

Chuanqi Xia, Jinying Teng, Lin Yue, Yekang Zheng, Yuxing Chu, Lvchao Zhuang,* Leihong Zhao* and Yiming He*

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A high-performance fluorophore-decorated bimodal scaffold as a target-specific ratiometric sensor and extractant for aluminum and mercury ions

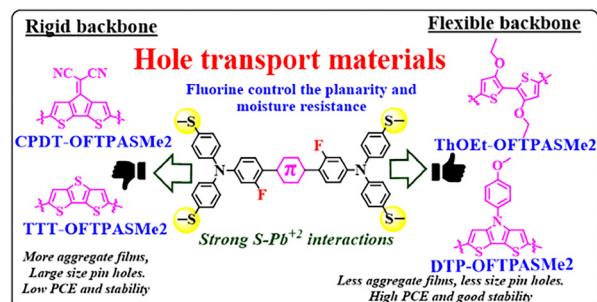
Bharatkumar Thangaraj, Sathiyarayanan Kulathu Iyer, Ravichandran Cingaram and Karthikeyan Natesan Sundaramurthy*



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Effect of *ortho*-fluorine substituted hole transport materials for perovskite solar cells: influence of rigid vs. flexible linkers

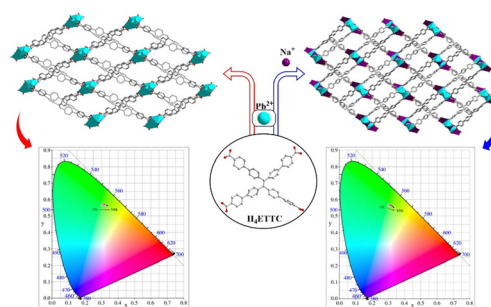
Telugu Bhim Raju,* Chathuranganie A. M. Senevirathne, Motonori Watanabe, Yuki Fujita, Dai Senba and Toshinori Matsushima*



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Lead-MOFs derived from an aggregation-induced fluorescence "turn-on" thermometer and the role of Na⁺ cations

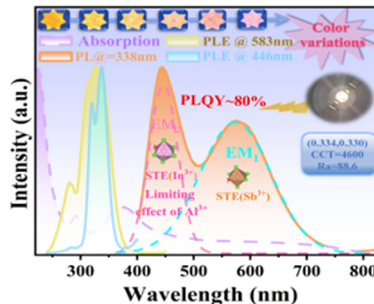
Xiao-Feng Wang,* Guang-Xiang Liu, Xiu Du Zhang,* Li Luo* and Kai Chen



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Highly efficient luminescence and color-tunable white emission from 0D Cs₂InCl₅·H₂O perovskites via Al³⁺ and Sb³⁺ codoping

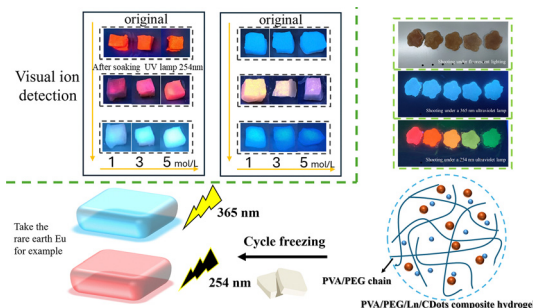
Yijia Wen, Shuaigang Ge, Lingli Chen, Chaowei Huang, Bingbing Zheng and Bingsuo Zou*



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Application of hydrogels based on carbon dots and rare earths in dual-wavelength UV excitation adjustable multicolor fluorescence

Jiajia Du, Daohai Zhang,* Kunlan Diao, Dongju Liu, Yupeng Hu, Zhi Lei, Jun Tong and Zhongli Wu*



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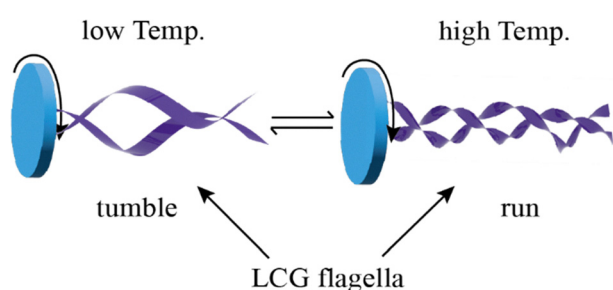
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Multi-color emission and temperature promoted luminescence efficiency of stoichiometric ionic co-crystals

Asif Ahmad Malik, Akkarakkaran Thayyil Muhammed Munthasir, Arshid Ahmad Ganie, Pakkirisamy Thilagar* and Ajjaz Ahmad Dar*

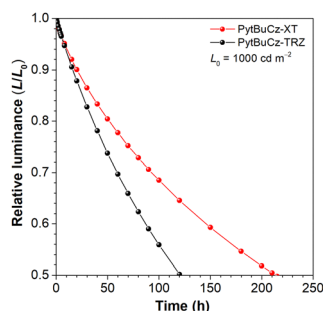
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Bacteria inspired soft robots with responsive flagellar bundles

Liqu Yang, Jie Wang, Jinyu Wang, Xiaoyu Wang, Shuai Huang, Tao Yang* and Quan Li*

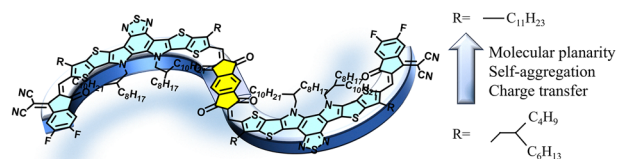
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Comparative study on electroluminescence efficiencies and operational stability of blue TADF materials based on xanthone or triphenyltriazine acceptors

Zhangshan Liu, Ting Guo, Jingxian Fang, Ben Zhong Tang and Zujin Zhao*

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Side-chain engineering of bifunctional linkage unit-linked giant molecular acceptors for organic solar cells

Yuqian Zhou, Yanyi Zhong, Shijie Yuan, Hanyu Cheng, Weili Li, Jun Han, Jiangbin Zhang,* Kai Han, Jun Yuan, Yungui Li, Lihui Jiang* and Yingping Zou

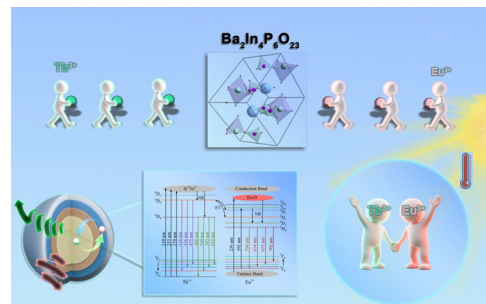


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Structure and luminescence properties of multicolor phosphors based on a new phosphate $\text{Ba}_2\text{In}_4\text{P}_6\text{O}_{23}$

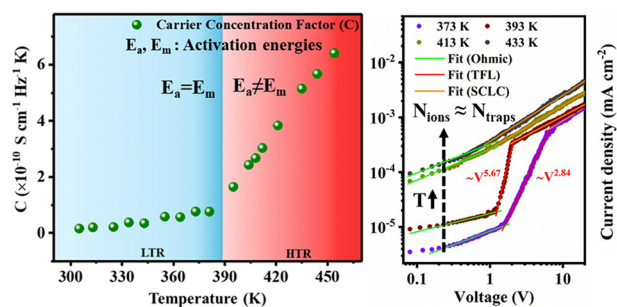
Jia-Ni Wu, Shu-Juan Zhao, Geng-Xin Zhang, Bo Ye, Gui-Hua Li and Ge-Mei Cai*



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Impact of thermally activated ionic dynamics on the trap-mediated current–voltage characteristics of a mixed-halide hybrid perovskite

Manoj Singh, Lokesh Singh Tanwar and Rupak Banerjee*



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Devising an advanced $\text{WS}_2/\text{a-Ga}_2\text{O}_3$ photodetector for high-temperature operation

Yan Tian, Hao Liu, Jiaming Guo, Jing Li, Baodan Liu* and Fei Liu*

