Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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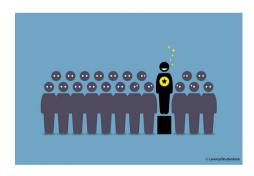
Cover

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EDITORIAL

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Outstanding Reviewers for *Journal of Materials* Chemistry C in 2022

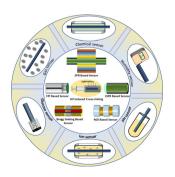


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Hydrogel-integrated optical fiber sensors and their applications: a comprehensive review

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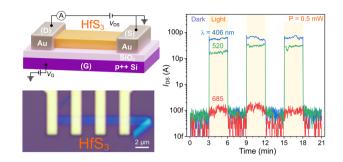
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Electronic transport and polarization-dependent photoresponse in few-layered hafnium trisulfide (HfS₃) nanoribbons

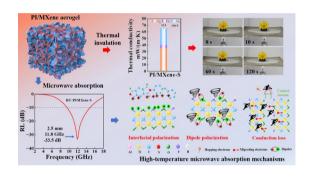
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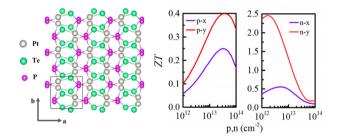
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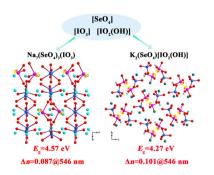
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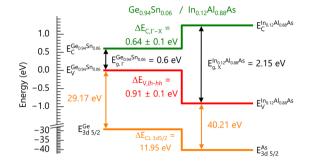
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Wen Song, Jinxuan Ren, Jinwen Tan, Liling Cao, Xuehua Dong, Ling Huang,* Daojiang Gao and Guohong Zou*

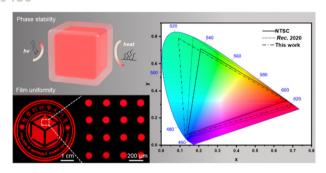


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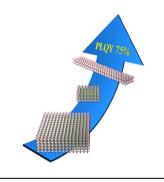
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Pure red CsPbBr_{0.96}I_{2.04}/SiO₂ core/shell nanocrystals with simultaneous high efficiency and stability for Mini-LEDs

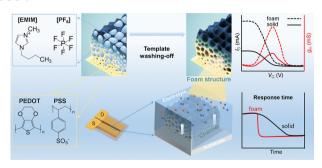
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Shape- and excitation-dependent charge-carrier dynamics in colloidal MAPbI perovskites as nanostripes, nanosheets and nanoplatelets

Eugen Klein, Chris Rehhagen, Rostyslav Lesyuk and Christian Klinke*



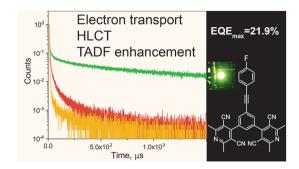
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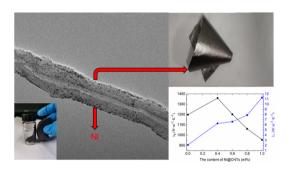
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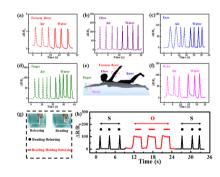
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Micro-/nanofiber-coupled superhydrophobic and conductive textile for underwater wearable strain sensors with full-scale human motion detection ability

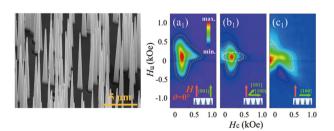
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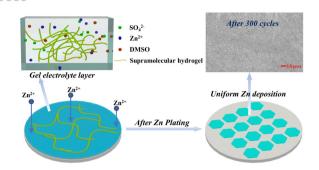


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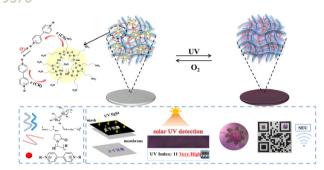
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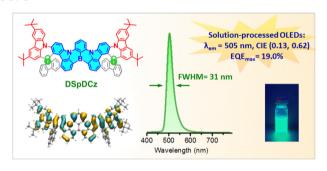
Study of a novel supramolecular hydrogel electrolyte for aqueous zinc ion batteries

Ying Yang, Changmiao Huang, Hui Li, Zixuan Teng, Heng Zhang, Xi Wei, Hong Zhang, Lili Wu, Chaocan Zhang and Wanyu Chen*



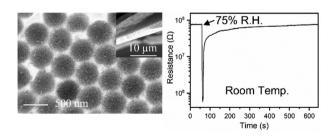
A novel ZnO/viologen photochromic composite film with a rapid UV response for rewritable paper, solar UV detection, smart windows and anti-counterfeiting

Na Chen, Wan-Xiong Yong, Tuo-Dong Xiong and Guo-Dong Fu*



Spirofluorene-locked carbazole based multiple resonance thermally activated delayed fluorescence emitters for efficient solution-processed narrowband green OLEDs

Baoyun Du, Kaiyuan Zhang, Penglong Wang, Xingdong Wang, Shumeng Wang, Shiyang Shao* and Lixiang Wang*

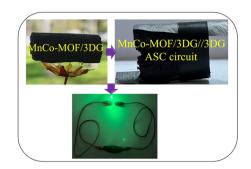


Ordered porous RGO/SnO₂ thin films for ultrasensitive humidity detection

Zhou Li, David W. Gardner, Yong Xia, Sikai Zhao, Aifei Pan, Nishit Goel, Stephen Bart, Chen Liu, Jianxin Yi, Carlo Carraro and Roya Maboudian*

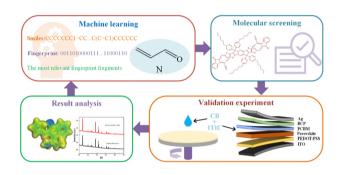
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Elif Erçarıkcı, Ezgi Topçu and Kader Dağcı Kıranşan*



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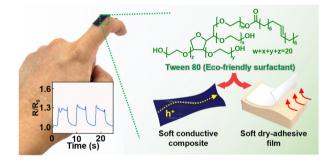
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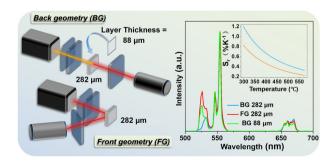
A skin-friendly soft strain sensor with direct skin adhesion enabled by using a non-toxic surfactant

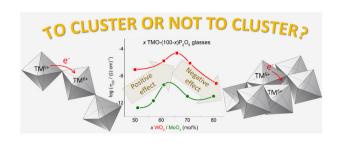
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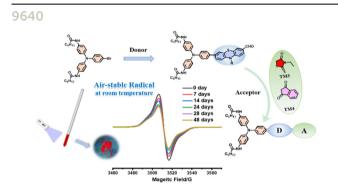
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Glass structure as a driver of polaronic conductivity in phosphate glasses containing MoO₃ and WO₃

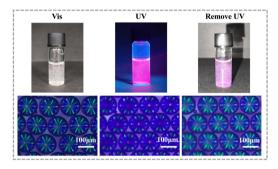
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A feasible strategy to obtain air-stable triphenylamine radicals in the solid state by introducing conjugated donor-acceptor modules

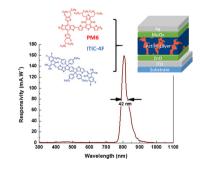
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A three-state label programmed using a three-color microsphere of structural, fluorescent and dye colors

Chaofeng Qu, Xiaolan Li, Na Zhao, Sijie Zhou, Jiaming Wang, Lishuang Yao* and Yongjun Liu*

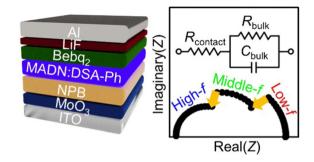


Towards efficient NFA-based selective near-infrared organic photodetectors: impact of thermal annealing of polymer blends

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Frequency-triggered circuit transition in organic light-emitting diodes probed by impedance spectroscopy

Joon Hyung Park, Ye Ji Shin, Ioannis Kymissis, Yongmin Jeon* and Chang-Hyun Kim*



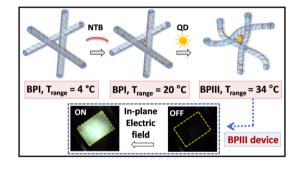
Improving the photocatalytic performance of conjugated polyelectrolytes via substituent optimization

Li Tian,* Haowei Lin, Mengya Shang, Xi Zhang, XueFei Zhou, Shanhong Xu, Cheng-Xing Cui* and Airong Wang*



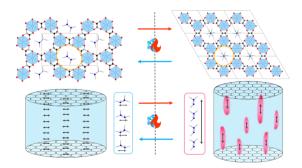
Topological defects stabilized by a soft twist-bend dimer and quantum dots lead to a wide thermal range and ultra-fast electro-optic response in a liquid crystalline amorphous blue phase

Nurjahan Khatun, Vimala Sridurai, Katalin F. Csorba and Geetha G. Nair*

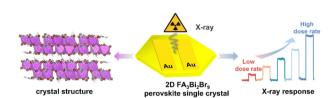


A new avenue to relaxor-like ferroelectric behaviour found by probing the structure and dynamics of [NH₃NH₂]Mg(HCO₂)₃

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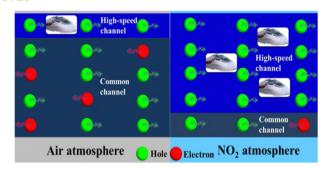
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A centimeter-scaled lead-free two-dimensional perovskite FA₃Bi₂Br₉ single crystal for X-ray detection

Xiuting Luo, Lei Gao, Kezheng Tao, Qiang Li and Qingfeng Yan*

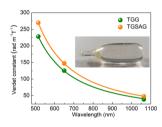
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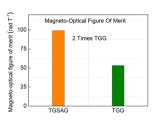


Ternary alloyed $MoS_{2-x}Se_x$ nanocomposites with a carrier mobility-dominated gas sensing mode: a superior room temperature gas sensing material for NO_2 sensors

Mingli Yin,* Kexin Wang, Liaochuan Zhang, Chunxiao Gao, Juan Ren and Lingmin Yu

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Reporting a novel visible near-infrared $\{Tb_3\}[Ga_{0.1}Sc_{1.9}](Al_3)O_{12}$ single crystal for Faraday isolators

Yuankai Hao, Xianhui Xin, Xianxian Yang, Zhen Zhang, Xiuwei Fu,* Zhitai Jia* and Xutang Tao