Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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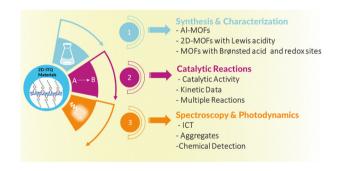
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REVIEW

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Synthesis, characterization & catalysis of ITQ 2D metal-organic frameworks and spectroscopic & photodynamic properties of their composites with organic dyes

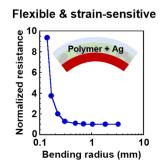
Mario Gutiérrez, Urbano Díaz,* Boiko Cohen* and Abderrazzak Douhal*

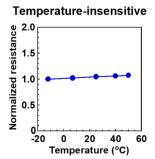


PAPERS

An ultra-flexible temperature-insensitive strain sensor

Yu Kato, Kenjiro Fukuda, Takao Someya* and Tomoyuki Yokota*





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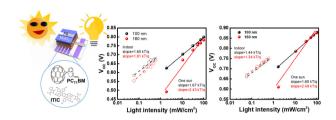
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Insights into the photovoltaic mechanism of organic photovoltaics under solar and artificial light

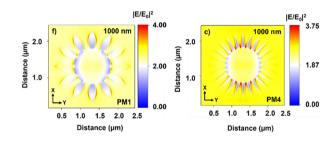
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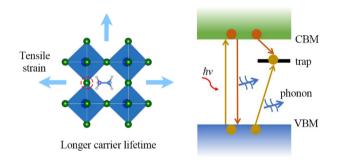
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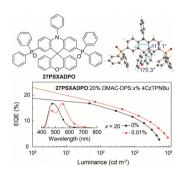


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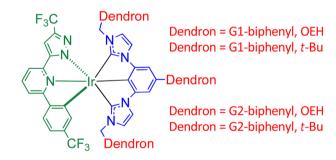
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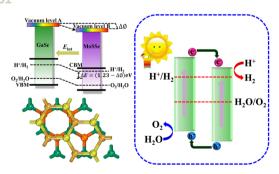
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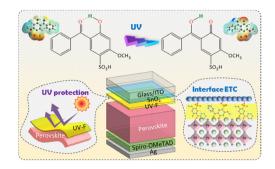
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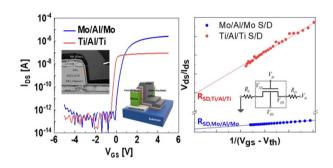
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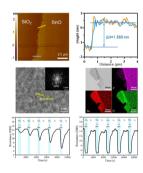
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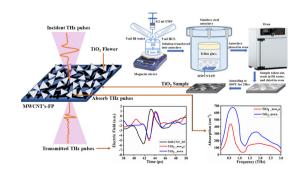
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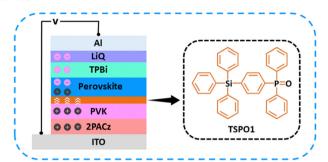
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High-performing TiO₂ flower-like nanostructures based on flexible MWCNTs for dual-band terahertz absorption

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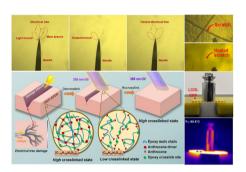
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Effect of the hole transport layer on the performance of sky-blue Dion-Jacobson perovskite light-emitting diodes

Wen Ting Sun, Yanling He, Muhammad Umair Ali, Qiye Liu, Hongbo Mo, Sijia Wang, Alan Man Ching Ng and Aleksandra B. Djurišić*

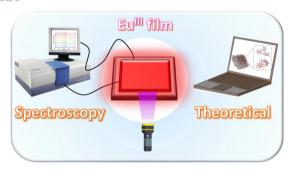
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A UV-responsive mechanically robust insulating polymer that achieves intrinsic self-healing of electrical tree damage based on reversible anthracene photodimerization

Potao Sun, Zeyan Shi, Wenxia Sima,* Xinyu Tang, Tao Yuan, Ming Yang, Hang Xu and Zhaoping Li

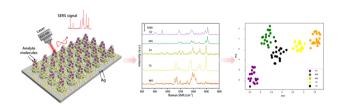
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Unrevealing the opto-structural features of luminescent polymeric films containing Eu^{III}-doped phosphors through spectroscopic and theoretical perspectives

Leonardo F. Saraiva, Airton G. Bispo-Jr. Sergio A. M. Lima and Ana M. Pires*

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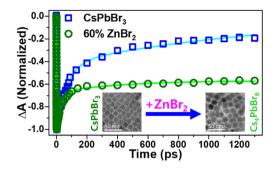
A SERS sensor based on 3D nanocone forests capable of intelligent classification of aquatic product dyes

Yaqian Zhao, Ruoyang Huang, Xin Li, Xuanjiao Mao, Shaohang Xu, Na Zhou, Shaojuan Li,* Haiyang Mao* and Chengjun Huang

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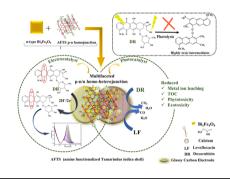
Naresh Varnakavi, Kiran Gupta, Kyunghoon Lee, Jiwoong Yang, Pil-Ryung Cha* and Nohyun Lee*



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A green catalyst and sensor: band engineering of Bi₂Fe₄O₉-based S-scheme p-n/n homo-heterojunction for detection and degradation of cytotoxic drug

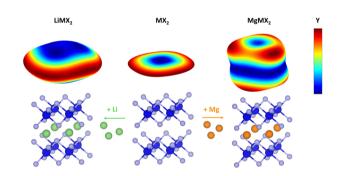
Deepeka, Jyoti, Paramdeep Kaur, Komal, Sandeep Bansal, Vinod Kumar, Kulbhushan Tikoo and Sonal Singhal*



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Intercalation-dependent elastic properties of transition metal dichalcogenides

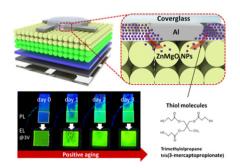
Conor Jason Price* and Steven Paul Hepplestone*



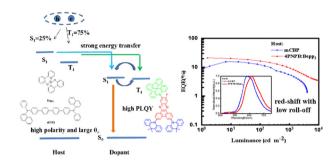
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Positive aging in InP-based QD-LEDs encapsulated with epoxy: the role of thiol molecules and post-annealing treatment

Hyunwoo Jang, Seungki Shin, Minwoo Lee, Namyoung Gwak, Seongchan Kim, Yunseo Lee and Nuri Oh*



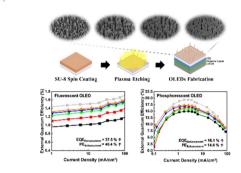
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Optimizing the horizontal dipole orientation and dipole-dipole interaction of thermally activated delayed fluorescence emitters for high efficiency and low roll-off red OLEDs

Jianwen Qin, Xianfeng Qiao, Dezhi Yang, Qian Sun, Yanfeng Dai, Xuhui Zhu and Dongge Ma*

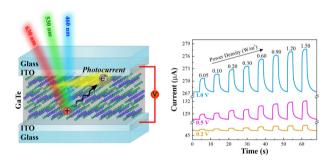
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A morphological study of random nanostructured external light extraction layers for enhancing optical characteristics of OLEDs

Geun Su Choi, Shin Woo Kang, Eun Jeong Bae, Byeong-Kwon Ju* and Young Wook Park*

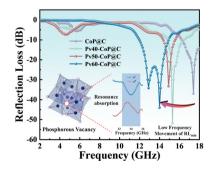
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Efficient van der Waals layered gallium telluride-based passive photodetectors for low-power-density sensing of visible light

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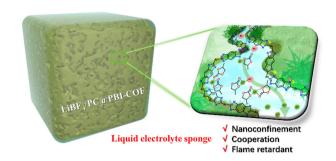
Resonance loss due to the polarization accumulation effect induced by phosphorus vacancies for enhancing electromagnetic wave absorption

Shaoyao Tian, Zhihao Sun, Han Ding, Zihao Guo, Peng Wang, Yu Qiu, Benli Du and Lei Qian*

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A flame retardant benzimidazole-linked covalent organic framework as an organic solution sponge for acceleration of Li⁺-ion migration in solid-state electrolytes

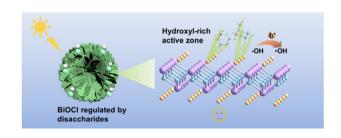
Han Zhang, Ya-Ru Kong, Jin Zhang,* Xing-Yu Ren and Xiao-Ming Ren*



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BiOCl with a favorable surface state regulated by polyhydroxylated disaccharides for dramatically accelerated photodegradation capacity

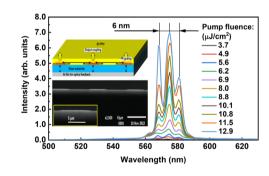
Jintao Wang, Yuan Liu, Zhichen Wang, Hao Mei, Rongbin Zhang* and Xuewen Wang*



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Broad-band self-injection organic laser amplifier based on a DBR microcavity

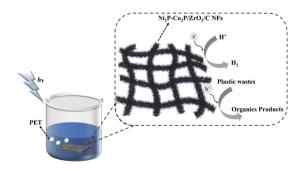
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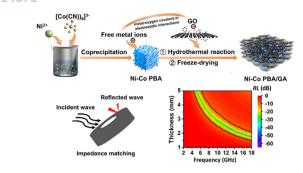
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An efficient and recyclable Ni₂P-Co₂P/ZrO₂/C nanofiber photocatalyst for the conversion of plastic waste into H₂ and valuable chemicals

Wenbin Qu, Xueyang Qi, Guixiang Peng, Minchao Wang, Lixin Song,* Pingfan Du and Jie Xiong*



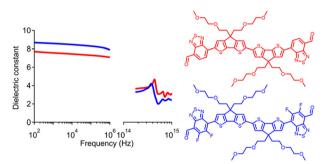
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Ni-Co Prussian blue analogue/graphene aerogel: a green synthesis approach for high-performance electromagnetic wave absorption and radar stealth applications

Weijie Liang, Ying Wang,* Feng Gao,* Shikun Hou, Qiong Wu, Hua Yang, Fei Jin, Gongxun Bai, Yahui Wang, Zhenbao Li and Hongliang Ge*

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The effect of fluorination on the low and high frequency dielectric constants of non-polymeric organic semiconductors - towards homojunction solar cells

Neil Mallo, Shaun McAnally, Ronan Chu, Mohammad Babazadeh, Hui Jin, Paul L. Burn,* Ian R. Gentle and Paul E. Shaw*

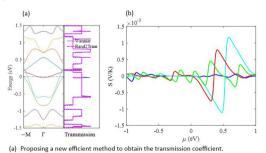
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Modification of thermally activated delayed fluorescence emitters comprising acridan-pyrimidine moieties for efficient sky-blue to greenish-blue OLEDs

Yi-Zhen Li, Hsuan-Chi Liang, Chia-Hsun Chen, Ching-Huang Chiu, Bo-Yen Lin,* Jake A. Tan,* Jiun-Haw Lee,* Tien-Lung Chiu* and Man-kit Leung*

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Tuning conducting phases in C₃N/C₂N heterostructures: applications in thermoelectrics

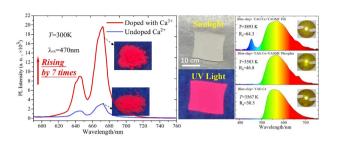
M. Amir Bazrafshan, Farhad Khoeini* and Catherine Stampfl

- (b) Obtaining a high value for the Seebeck coefficient.

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High brightness and vibronic luminescent behavior of YAG:Mn⁴⁺/Ca²⁺ red phosphor for preparing phosphor-in-glass in white LED

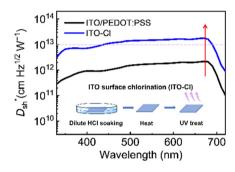
Chenyang Li, Fei Tang,* Yang Xiao, Yimin Zhou, Bo Zhao and Shasha Lv



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A Direct surface modification strategy of ITO anodes enables high-performance organic photodetectors

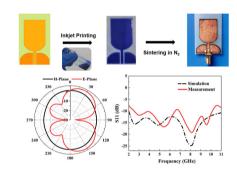
Jiahui Wang, Ruyan Zhao, Lu Zhang, Junhui Miao,* Jun Liu* and Lixiang Wang



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Copper particle-free ink with enhanced performance for inkjet-printed flexible **UWB** antennas

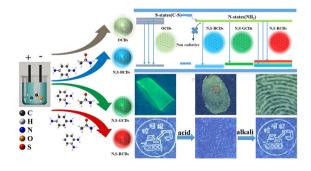
Wendong Yang,* Zhichao Dong, Zihao Guo and Haogiang Sun



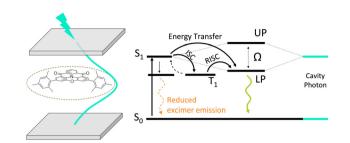
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Electrochemical synthesis of fluorescenceenhanced carbon dots with multicolor emission via surface nitrogen and sulfur modulation for information encryption applications

Qingling Zhao, Xiaotong Wang, Qinghong Song, Zehao Zang, Chunyan Fan, Lanlan Li, Xiaofei Yu, Zunming Lu and Xinghua Zhang*



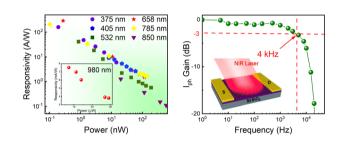
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Multi-resonance TADF in optical cavities: suppressing excimer emission through efficient energy transfer to the lower polariton states

Inseong Cho, William J. Kendrick, Alexandra N. Stuart, Pria Ramkissoon, Kenneth P. Ghiggino, Wallace W. H. Wong and Girish Lakhwani*

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Flexible near-infrared polarized photodetector based on CuPc single crystal grown by microspacing in-air sublimation

Mengru Li, Qiangian Du,* Yanxun Zhang, Yunlong Liu, Wenjun Wang, Fengqiu Wang* and Shuchao Qin*

CORRECTION

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Correction: Ternary alloyed MoS_{2-x}Se_x nanocomposites with a carrier mobility-dominated gas sensing mode: a superior room temperature gas sensing material for NO₂ sensors

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