Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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ISSN 2050-7526 CODEN JMCCCX 11(29) 9737-10094 (2023)



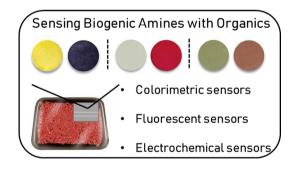
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Biogenic amine sensors using organic π -conjugated materials as active sensing components and their commercialization potential

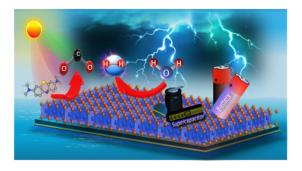
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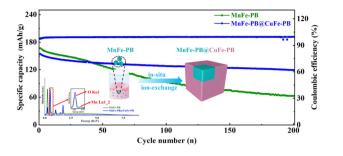


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Ion exchange to construct a high-performance core-shell MnFe-PB@CuFe-PB cathode material for sodium ion batteries

Hongyu Cheng, Yi-Nuo Liu, Zhuo-Er Yu, Yingying Song, Yinping Qin, Maomao Zhang, Riming Chen, Jingjing Zhou, Yang Liu* and Bingkun Guo*

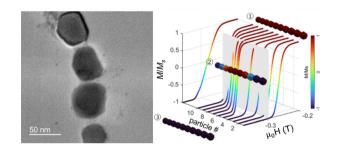


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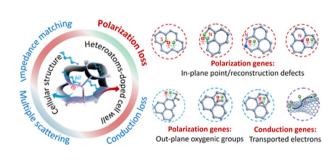
Gyuyoung Park, Hyeonah Jo, Yeon-Ju Oh, Saurabh Pathak and Sang-Koog Kim*



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Polarization genes dominated heteroatom-doped graphene aerogels toward super-efficiency microwave absorption

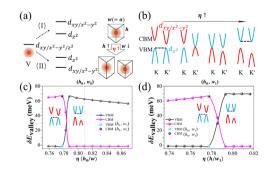
Xiaogu Huang,* Lan Zhang, Gaoyuan Yu, Jiawen Wei and Gaofeng Shao*



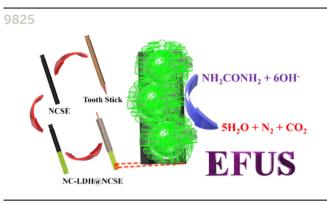
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Effects of crystal deformation on spin-valley interplay and topological phase transition: a case study on VSi_2X_4 (X = N or P) monolayers

Zhenning Sun, Xinru Li,* Zhuojun Zhao, Yaojie Zeng, Yadong Wei* and Jian Wang



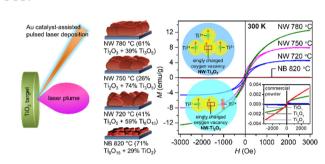




Exploration of 3D NiCu-layered double hydroxide flowers tailored on a biomass-derived N-doped carbon stick electrode as a binder-less enzyme-free urea sensing probe

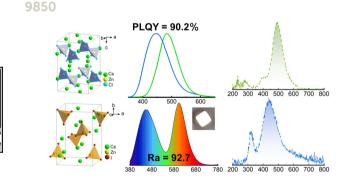
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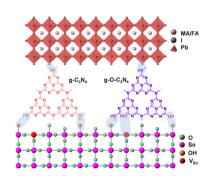
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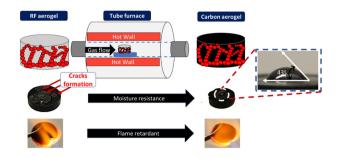
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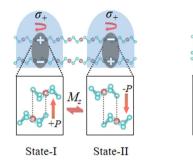
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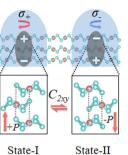


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Xikui Ma, Weifeng Li, Yangyang Li, Xiangdong Liu, Xian Zhao* and Mingwen Zhao*





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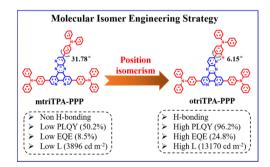
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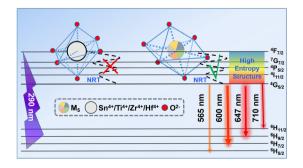
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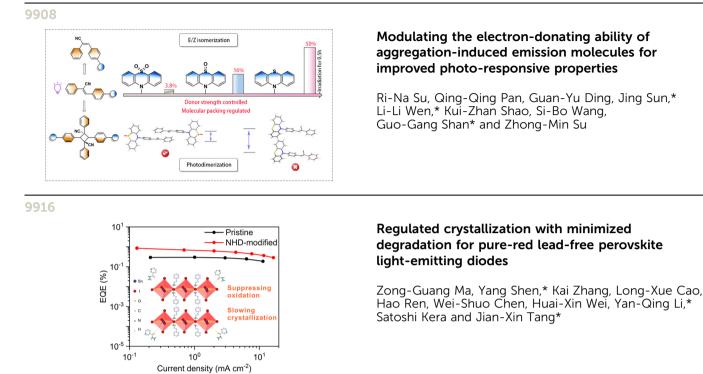
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Lei Xia, Zhan Mao, Xin Wang, Jing Zhu, Jiyang Xie, Zhe Wang and Wanbiao Hu*







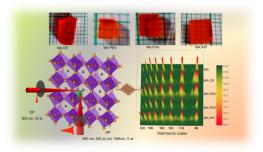
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Zhaoling Huang, Siyuan Li, Hao Guo, Caiping Huang, Yuyu Bian, Yubing Gong, Jiaqiang Huang* and Qi Zeng*

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ML-GO/CNT/AIN Film

Flexible FRH devi



55

^{ပ္} 50

25

20 L

500

252

1000

Time / s Deicing application

1500

2000

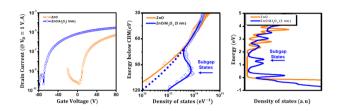
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Sarvani Jowhar Khanam, Srinivasa Rao Konda,* Azmeera Premalatha, Ravi Ketavath, Wufeng Fu, Wei Li* and Banavoth Murali*

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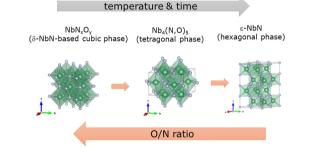




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Vanessa C. D. Graça,* Laura I. V. Holz, Francisco J. A. Loureiro, Glenn C. Mather and Duncan P. Fagg*



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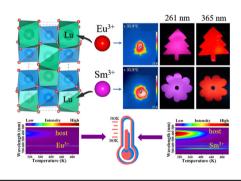
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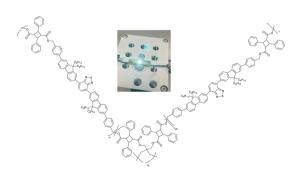
Yuqi Chen, Yu Xue, Qinan Mao, Lang Pei, Yang Ding, Yiwen Zhu, Meijiao Liu and Jiasong Zhong*

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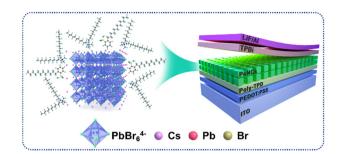
A cross-linkable, organic down-converting material for white light emission from hybrid LEDs

Hao Yang, Jochen Bruckbauer, Lyudmyla Kanibolotska, Alexander L. Kanibolotsky, Joseph Cameron, David J. Wallis, Robert W. Martin* and Peter J. Skabara*





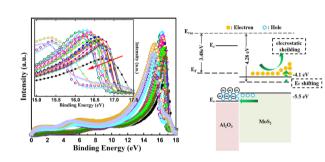




Trap states engineering toward all-inorganic CsPbBr₃ perovskite nanocrystals for highly efficient light-emitting diodes

Xudong Jin, Yanqin Miao, Jianhua Dong, Jingkun Wang, Qiqing Lu, Min Zhao,* Bingshe Xu* and Junjie Guo*

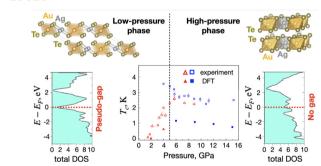
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The effect of Al_2O_3 electrical shielding on MoS_2 energy structure modulation in MoS_2/p -Si heterojunction solar cells

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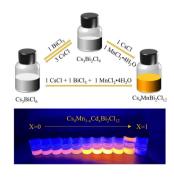
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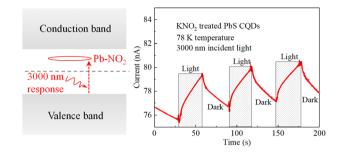
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Chunli Zhao, Yuan Gao* and Jianbei Qiu*

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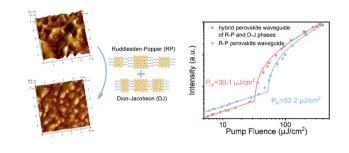
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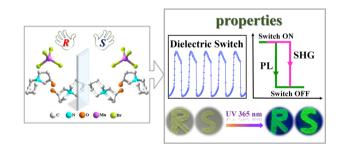
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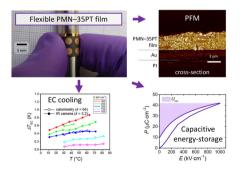
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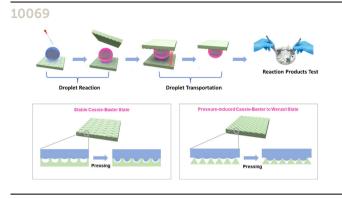
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Multifunctional flexible ferroelectric thick-film structures with energy storage, piezoelectric and electrocaloric performance

Matej Sadl, Uros Prah, Veronika Kovacova, Emmanuel Defay, Tadej Rojac, Andrej Lebar, Joško Valentinčič and Hana Ursic*



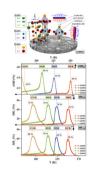
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Stretchable superhydrophobic elastomers with on-demand tunable wettability for droplet manipulation and multi-stage reaction

Xiaohong Ding, Yunchi Cai, Guofei Lu, Jiapeng Hu, Jinyun Zhao, Longhui Zheng, Zixiang Weng, Huanyu Cheng,* Jing Lin* and Lixin Wu*

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Polycrystalline La_{0.66}Gd_{0.04}Ca_{0.3}MnO₃ for magnetic-response applications: concurrent anisotropic magnetoresistance and magnetotransport under a low magnetic field

Sheng'an Yang, Junfeng Li, Jin Hu, Ruidong Xu, Hui Zhang, Lingde Kong, Xiang Liu, Ji Ma* and Qingming Chen*