# Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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ISSN 2050-7526 CODEN JMCCCX 11(23) 7473-7842 (2023)



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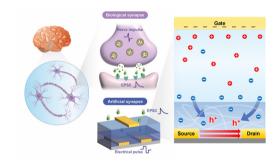
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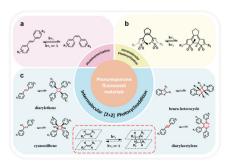
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Xinni Ping, Junjun Pan, Xin Peng, Chuangye Yao, Tian Li, Hui Feng and Zhaosheng Qian\*



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Journal of Materials Chemistry C (electronic: ISSN 2050-7534) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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#### **REVIEWS**

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From 0 to N: circularly polarized luminescence generation from achiral luminophores in fibrous morphologies

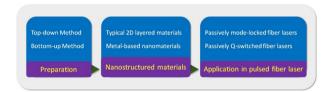
Xiaoxiao Yu, Linfeng Chen, Wanting Yu, Yanhua Cheng\* and Meifang Zhu



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# Preparation and pulsed fiber laser applications of emerging nanostructured materials

Min Li,\* Yabin Hao, Swelm Wageh, Omar A. Al-Hartomy, Abul Kalam and Han Zhang\*

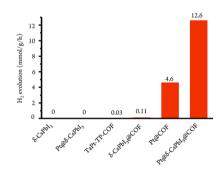


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Promoting charge separation in a composite of  $\delta$ -CsPbI<sub>3</sub> and covalent organic frameworks

Guangsong Yuan, Siwen Feng, Qing Yang, Fangli Yi, Xinyu Li, Yiqi Yuan, Cuijuan Wang\* and Hongjian Yan\*

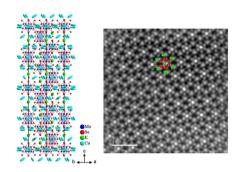


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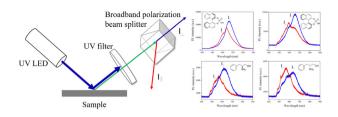
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Influence of Cu insertion on the thermoelectric properties of the quaternary cluster compounds  $Cu_3M_2Mo_{15}Se_{19}$  (M = In, K) and  $Cu_4In_2Mo_{15}Se_{19}$ 

Patrick Gougeon,\* Philippe Gall, Shantanu Misra, Adèle Léon, Christine Gendarme, Sylvie Migot, Jaafar Ghanbaja, Soufiane El Oualid, Bertrand Lenoir and Christophe Candolfi\*



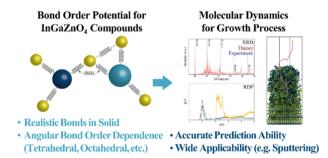
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# Probing the chirality and optical activity of organic molecules through the anisotropic photoluminescence of porous silicon

Chih-Hsuan Hu, Vincent K. S. Hsiao\* and Chih-Chien Chu\*

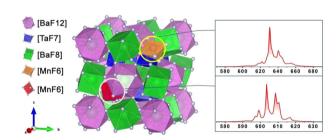
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Yun Ho Lee, Su Hyun Park and Byoung Don Kong\*

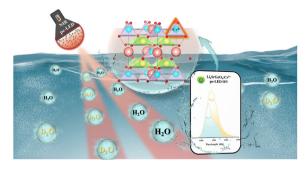
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# Exploring dual-emission properties in Mn<sup>4+</sup> distinctively activated BaTaF7 red emitting phosphor

Konglan Chen, Shiyu Jia, Zifan Shao, Xinxin Han, Jian Yuan, Yayun Zhou\* and Tingting Deng\*

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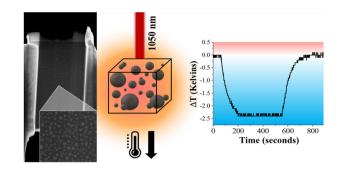
# Valence state control of Cr4+-activated Li2SrGeO4 for NIR-II light source to distinguish deuterium and non-deuterium reagents

Xiaoxuan Guo, Bomei Liu,\* Rongyi Kuang, Weijiang Gan, Lin Huang and Jing Wang\*

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# Controlled phase-separation effect for enhanced optical refrigeration in yttrium-aluminosilicate glasses

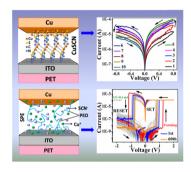
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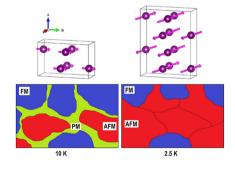
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#### Magnetic phase separation in the EuPdSn<sub>2</sub> ground state

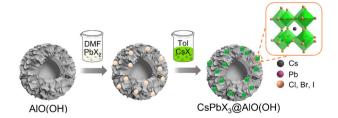
Alberto Martinelli,\* Dominic Ryan, Julian Sereni, Clemens Ritter, Andreas Leineweber, Ivan Čurlík, Riccardo Freccero and Mauro Giovannini



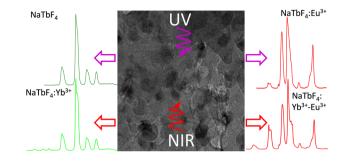
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CsPbX<sub>3</sub> nanocrystals embedded in hollow AlO(OH) nanosheet assemblies towards highly bright flexible multicolor emitting films

Jinchan He, Xiao Zhang,\* Cong Xie, Hsueh Shih Chen and Ping Yang\*

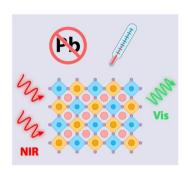


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# Efficient down-shifting and up-conversion emission dual-mode in RE3+-doped NaTbF4-based nano-glass ceramics

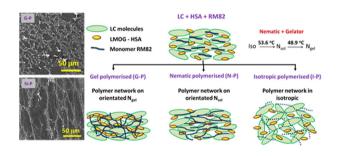
Javier del-Castillo, Angel Carlos Yanes\* and Moisés Cantón-Jara



# Luminescent Pb-free perovskites: low-cytotoxicity materials for primary thermal sensing

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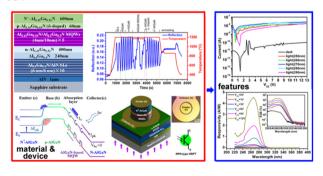
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# Anisotropic sol-gel transition and morphological aspects of a hierarchical network of nematic gel and a superimposed photopolymer

G. V. Varshini, D. S. Shankar Rao\* and S. Krishna Prasad

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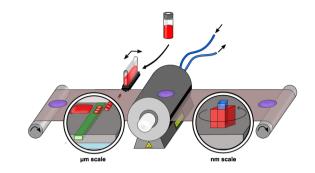
# AlGaN-based solar-blind UV heterojunction bipolar phototransistors: structural design, epitaxial growth, and optoelectric properties

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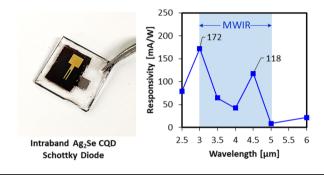
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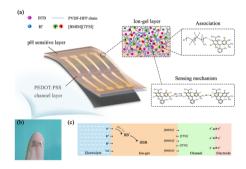
Mohammad M. Al Mahfuz, Junsung Park, Rock Huebner, Sunghwan Lee and Dong-Kyun Ko\*



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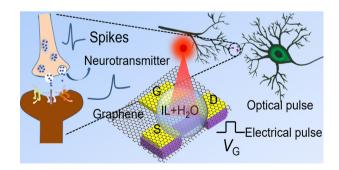
Xin Chen, Jianlong Ji,\* Yubo Peng, Zhipeng Gao, Min Zhao, Bin Tang\* and Ying Liu\*



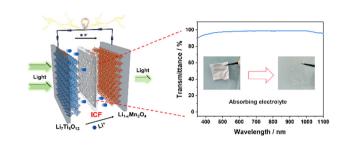
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# Multisensory synapses based on Fe<sub>3</sub>O<sub>4</sub>/graphene transistors for neuromorphic computing

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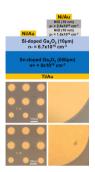
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Wanzhong Li, Ting Bai, Qiangian Zhang,\* Jingbing Liu, Kailing Zhou and Hao Wang\*

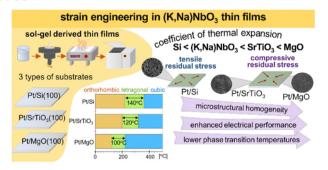
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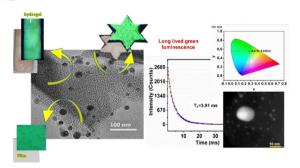
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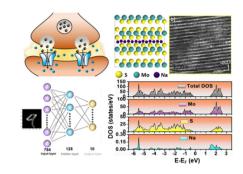
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Liz Hannah George, Sreedharan Prathapan, Narayanapillai Manoj, Prasanth Rathinam, Salbi Aadithya and G. S. Sailaja\*

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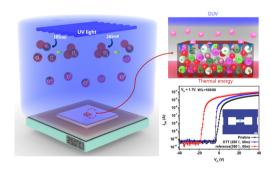
D. Das,\* J. Asirvatham, M. A. Luong, A. Claverie, P. Johari\* and A. Kanjilal\*



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In Pyo Park, Bu Kyeong Hwang, Bo Ram Lee, Pung Keun Song\* and Soo Won Heo\*



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Quentin Weinbach, Naoures Hmili, Emma Gottis, Guillaume Fleith, Jérôme Combet, Vasiliki Papaefthimiou, Vincent Malesys, Emmanuel Denys, Laurent Simon, Marc Schmutz, Alain Carvalho, Doru Constantin and Laure Biniek\*

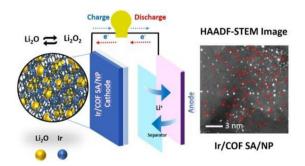


THERMALLY ISOLATING and ELECTRICALLY CONDUCTING PEDOT:PSS

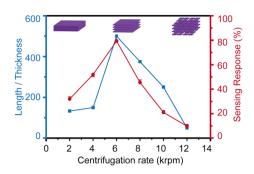
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Babar Shahzad, Yihui Li, Dong Xinfang, Yangjian Ding, Zewen Xu, Muhammad Kashif Zaman, Rana Muhammad Irfan\* and Cheng Huang\*



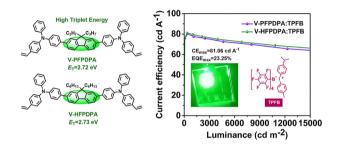
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Aspect ratio control of TaS<sub>2</sub> nanosheets: a methodology for room temperature formaldehyde gas sensing performance optimization

Ying Wang, Min Du, Jiangang Xu, Zhiyuan Zeng\* and Derek Ho\*

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Alkyl fluorene-based cross-linkable hole transport materials with high triplet energy for high-efficiency solution-processed green PHOLEDs

Qianqian Li, Hongli Liu,\* Xianggao Li and Shirong Wang\*