

Journal of Materials Chemistry C

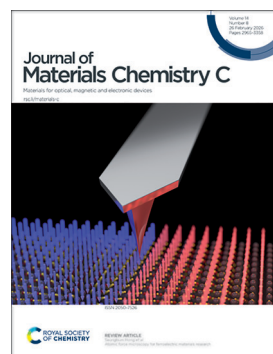
Materials for optical, magnetic and electronic devices

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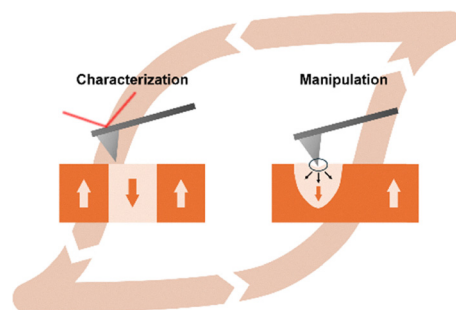
See Seungbum Hong *et al.*, pp. 2977–2991.
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Atomic force microscopy for ferroelectric materials research

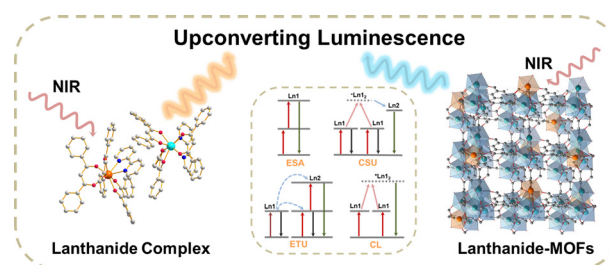
Yeongyu Kim, Kunwoo Park, Seonggon Han, Dongyan Chen, Donghun Kim, Gumin Kang and Seungbum Hong*



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Lanthanide upconverting luminescence in molecular complexes and metal–organic frameworks

Jitender Kumar, Guotao Sun, Renrui Sun and Lining Sun*



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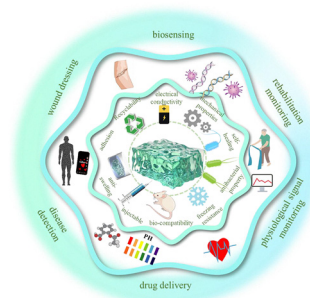
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REVIEWS

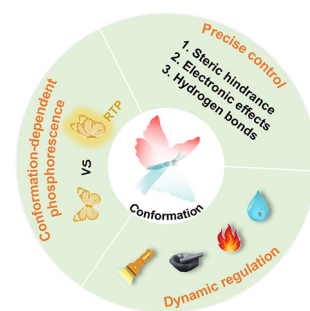
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PVA-based composite hydrogels for biomedical applications

Yehan Li, Ruonan Liu, Yiqi Li, Guanglei Chen,*
Yucen Wan* and Ye Tian*

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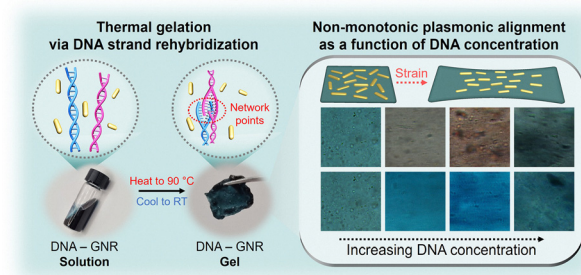
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Mingxue Gao, Jia Wang, Manman Fang, Jie Yang* and
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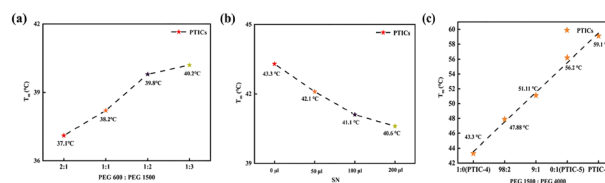
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Non-monotonic plasmonic alignment governed by liquid-crystalline DNA hydrogel networks

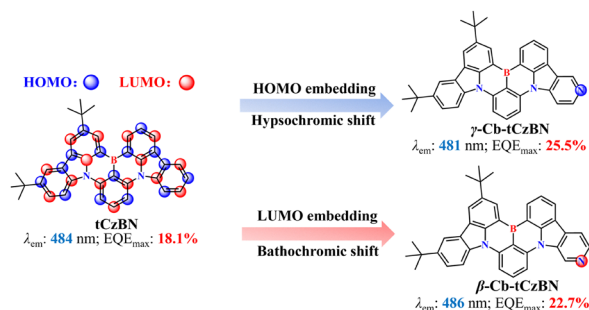
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A hierarchical tuning strategy for continuously adjustable phase-transition ionic conductors toward multimodal sensing

Lei Zhou, Jiaqi Huang, Daizhe Wang, Xiaochen Sun,
Dongyan Tang, Lu Li, Dongqing He,* Guohui Qin* and
Tengling Ye*

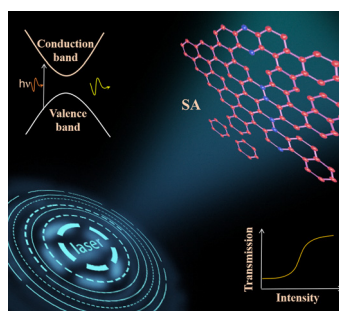
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Peripheral nitrogen-embedding strategy for fine tuning the emission peak of MR-TADF emitters

Qiang Zhang, Hanrui Su, Shan Huang, Hongbo Shao, Haotian Yue, Runda Guo* and Lei Wang*

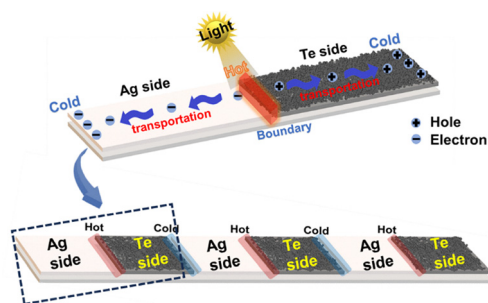
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Preparation of a 2D WS₂/MoS₂ heterostructure via S-vacancy doping and its application in ultrafast laser modulation

Mengdi Wang, Wei Xia, Jing Wang, Xinyue Zhang, Yuhang Guo, Guoshui Li, Peng Chen, Peng Song* and Gang Zhao*

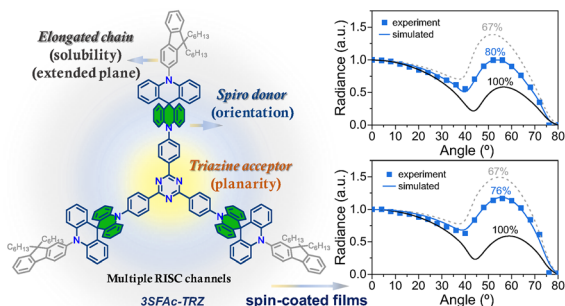
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A new Te/Ag planar heterojunction device based on screen printing for boosting photothermoelectric performance and heat-source-free non-contact sensing

Pengyu Zhu, Zhilei Wang, Yingjun Fang, Wenchao Wu, Yangyang Wu, Limin Ruan,* Jinling Zhao and Wei Zeng*

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A multiple spiro donor design strategy for horizontally oriented TADF emitters enabling high-performance solution-processed OLEDs

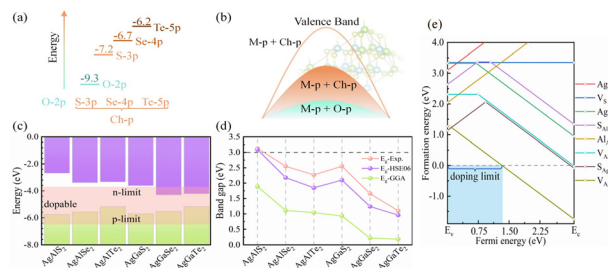
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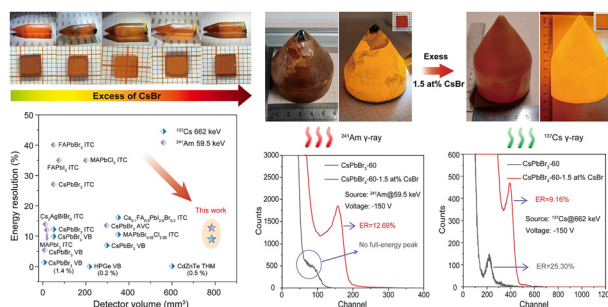
Yuhang Deng, Jiayuan Wang, Guoying Gao and Shuaiwei Fan*



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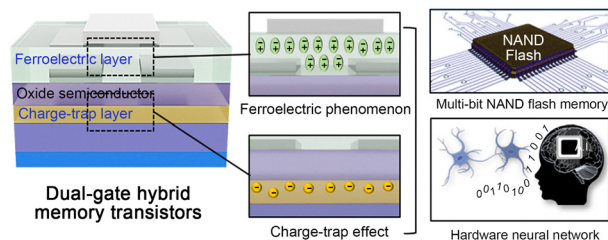
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Solution-processed charge-trap/ferroelectric hybrid memory transistor for enhanced data storage and neuromorphic computing

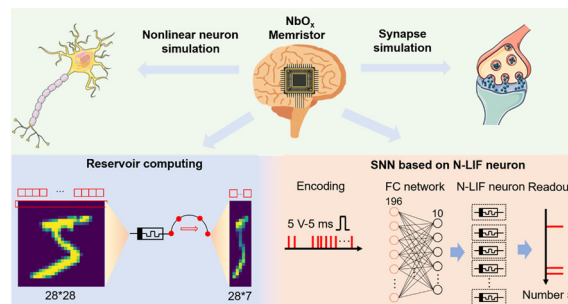
Hayoung Kim, Amos A. Boampong, Yujeong Hwang, Sin-Hyung Lee* and Min-Hoi Kim*



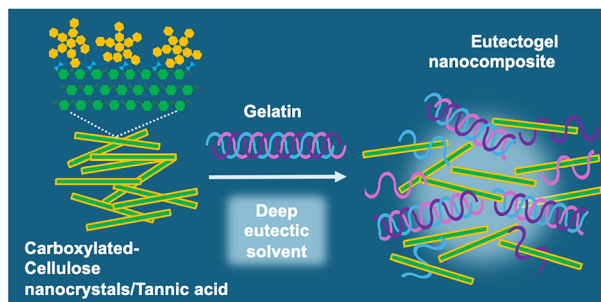
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Dynamically nonlinear NbO_x memristors for multifunctional reservoir and neuromorphic computing

Shuai-Bin Hua, Le Zhang, Ru-Hui Zheng and Xin Guo*



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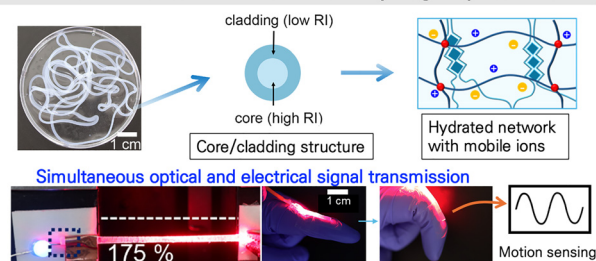


Engineering the interface of cellulose nanocrystals for transient and bioactive iontronics based on protein eutectogels

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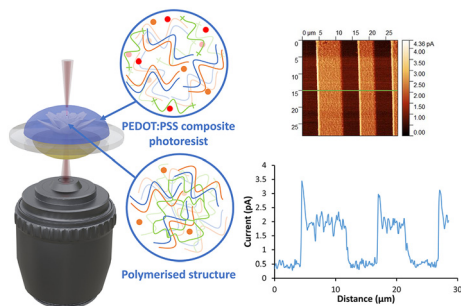
Microfluidic fabrication of conductive hydrogel optical fibers



Microfluidic fabrication of dual-functional hydrogel optical fibers with controlled swelling for simultaneous light transmission and ionic conductivity

Arti Singh and Jinhwan Yoon*

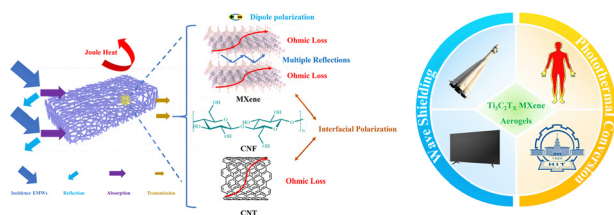
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Fabrication of 3D PEDOT:PSS composite microstructures via two-photon polymerisation

Jason M. Delente,* Srikanth Kolagatla, Naroa Lopez-Larrea, Miryam Criado-Gonzalez, Marco Carlotti, Brian J. Rodriguez, Colm Delaney, David Mecerreyes, Virgilio Mattoli and Larisa Florea*

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Ultralight and multifunctional CNT/CNF aerogels with excellent EMI shielding and photothermal conversion properties

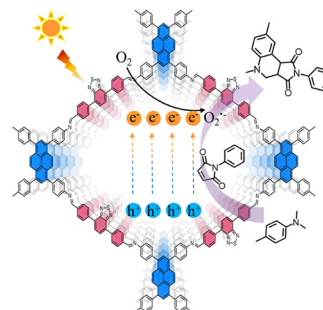
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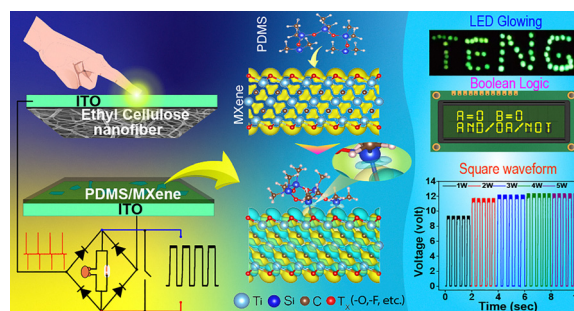
Chao-Qin Han, Ze-Yang Wang, Guang Che and Xiao-Yuan Liu*



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Spatially confined surface-terminated MXene nanosheets as a multifunctional platform for triboelectric sensing and logic gates

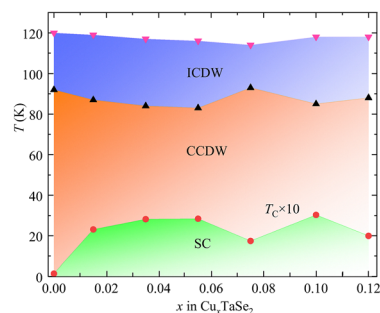
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Charge transfer-induced enhancement of superconductivity and suppression of CDW in Cu-intercalated TaSe₂ single crystals

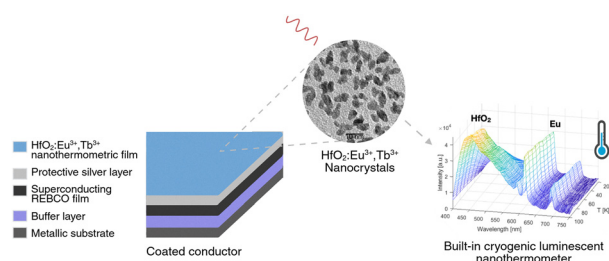
Yongkang Qi, Qianqian Yang,* Peng Zhu, Deng Hu, Xu Chen, Huifen Ren, Ping Duan, Jiawen Xiao, Zhiwei Wang and Xiang Li



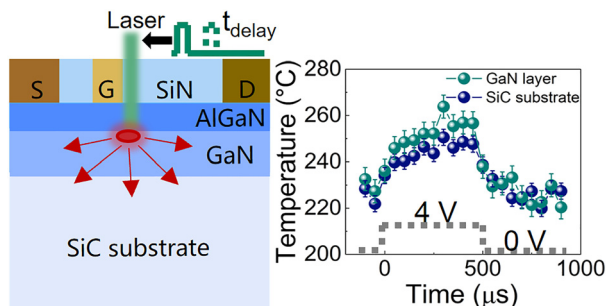
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Employing Eu,Tb-doped HfO₂ nanocrystals as built-in cryogenic luminescent nanothermometers for commercial coated conductors

Pauline Rooms, Mirijam Lederer, Ian Pompermayer Machado, Martina Tsvetanova, Klaartje De Buysser, Anna M. Kaczmarek* and Hannes Rijckaert



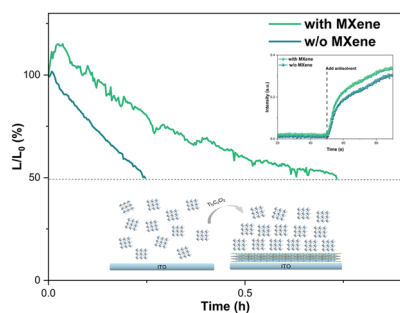
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Impact of pulse operation conditions on the transient temperature distribution of GaN HEMTs via Raman thermometry *operando* analysis

Ruihua An, Jinyan Zhao,* Liyan Dai, Qiang Wang, Jie Li, Wenbo Hu, Shengli Wu* and Gang Niu*

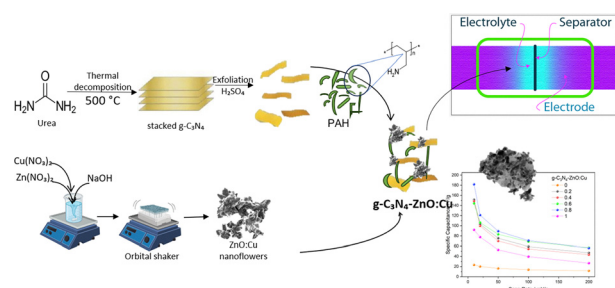
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Enhancing the stability of perovskite light-emitting diodes based on Cl-MXene

Jie Zhou, Shuo Ding,* Yu Wang, Mingxuan Cai, Fangzheng Ning, Shunming Li, Zibo Wang, Yanan Wang, Mian Li,* Qing Huang, Tao Sun* and Chaoyu Xiang*

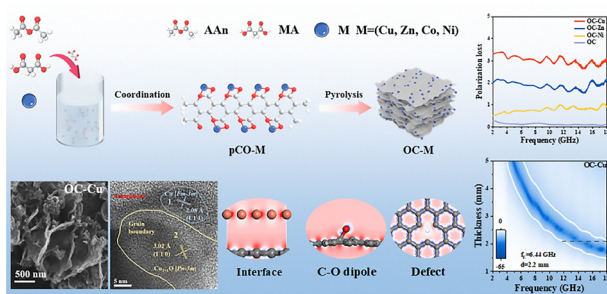
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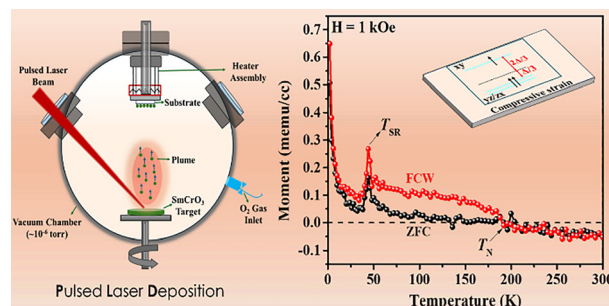
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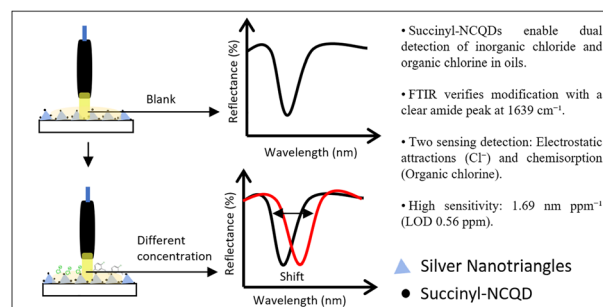
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Simultaneous dual detection of total chlorine in oil matrices via quantum dot-based LSPR

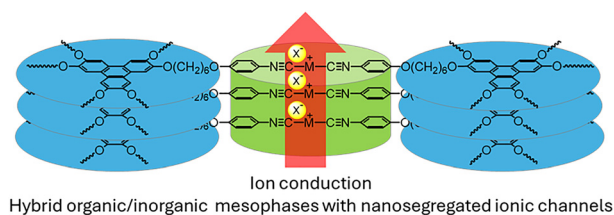
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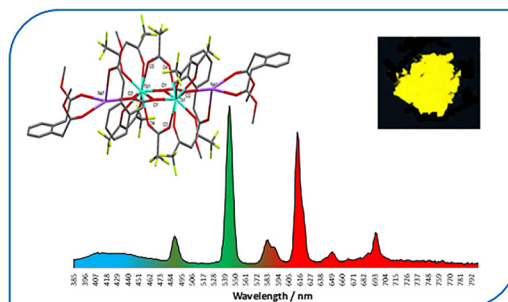
Rubén Chico, María Jesús Baena, Cristián Cuerva,* Rainer Schmidt, Bertrand Donnio* and Silverio Coco*



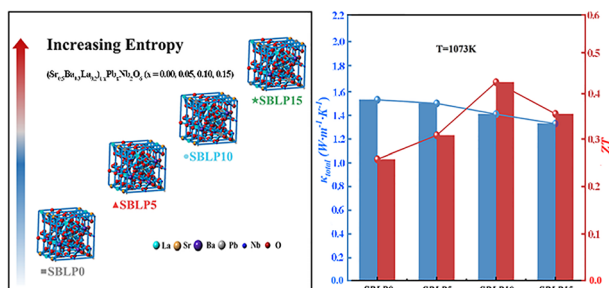
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Highly luminescent Tb(III) cluster for the sensitization of Eu(III) through $f \rightarrow f$ energy transfer for LED applications

Nawal K. Al-Rasbi* and Najat A. Al Riyami



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Entropy-mediated Pb doping in tungsten bronze $(\text{Sr}_{0.5}\text{Ba}_{0.3}\text{La}_{0.2})_{1-x}\text{Pb}_x\text{Nb}_2\text{O}_{6-\delta}$ oxides for synergistic electron–phonon transport optimization

Jiacheng Cao, Min Zhu,* Xuefeng Lu and Xiaonan Chen

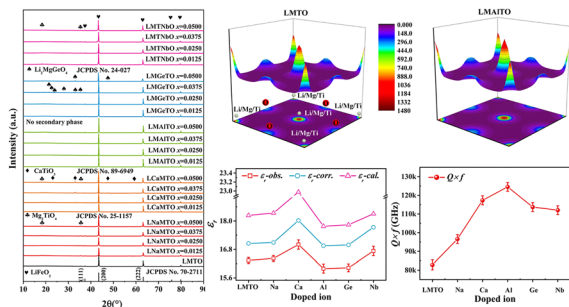
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Kui Liu, Yuran Yang, Gongwen Gan, Gaojie Zou, Jie Luo, Yida Lei, Cheng Liu, Huaiwu Zhang and Zongliang Zheng*

