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Materials for optical, magnetic and electronic devices

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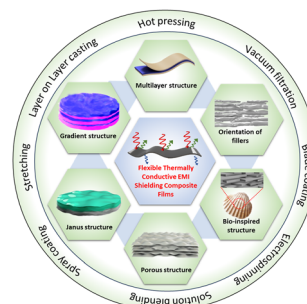
See Kang Yan, Tao Tan,
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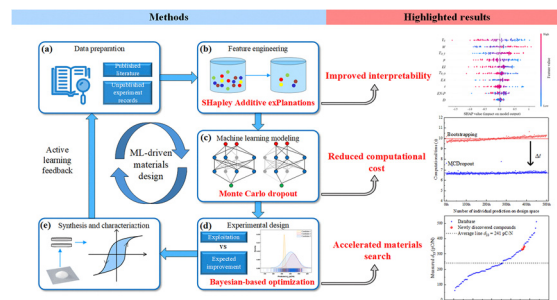
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Interpretable and uncertainty-informed machine learning to accelerate the design and discovery of lead-free piezoceramics with large piezoelectric constant

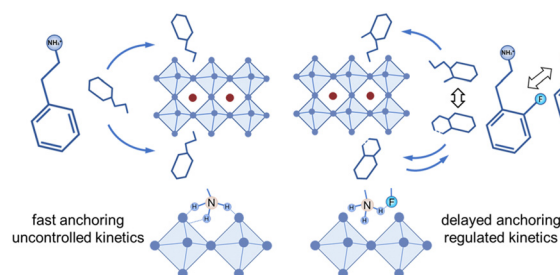
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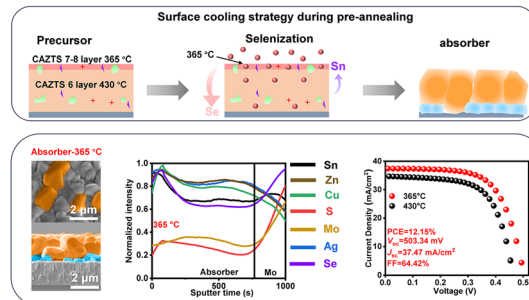
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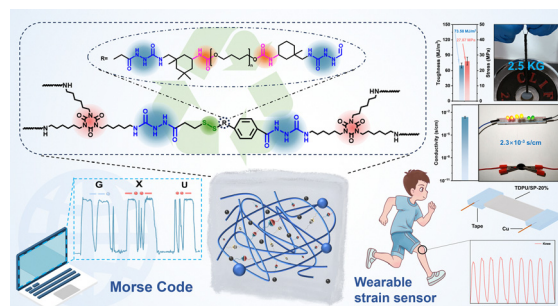
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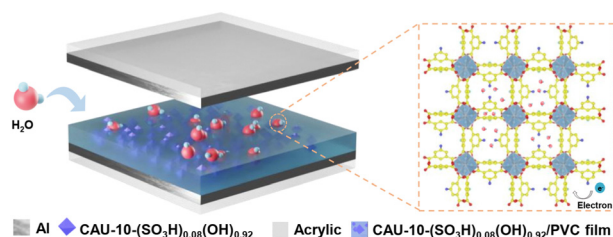
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Zhecheng Hu, Changsheng Wang, Xiwei Xu, Ziqian Wang, Yuxuan Xie, Zequan Li* and Wei Gao



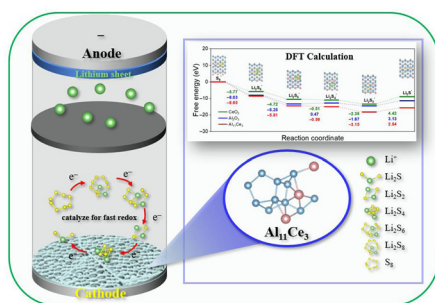
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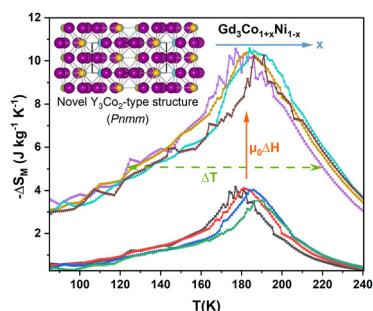
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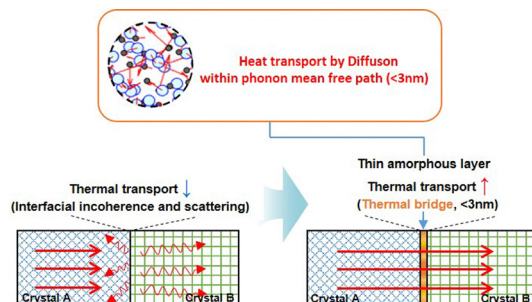
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Taesoon Hwang and Kyeongjae Cho*

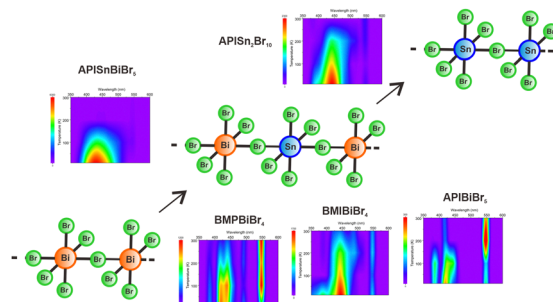


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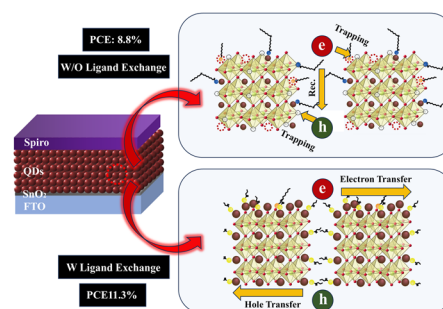
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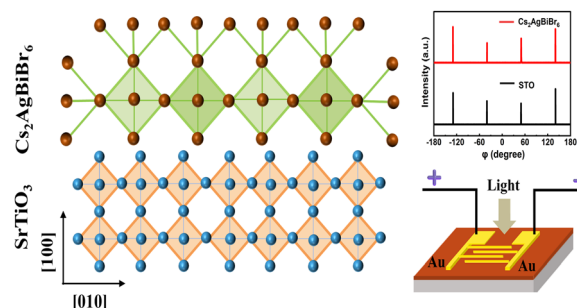
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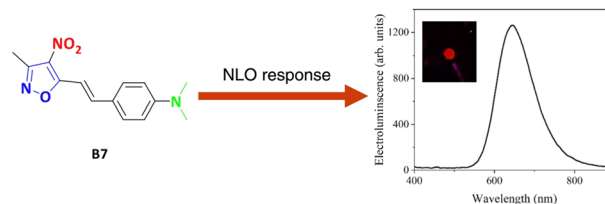
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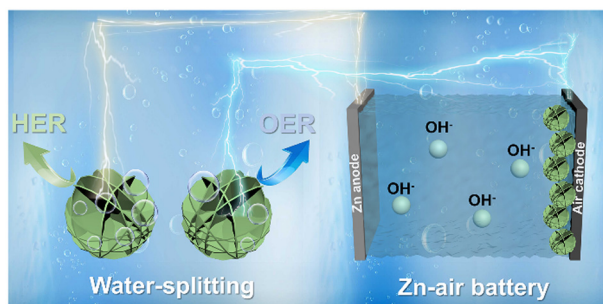
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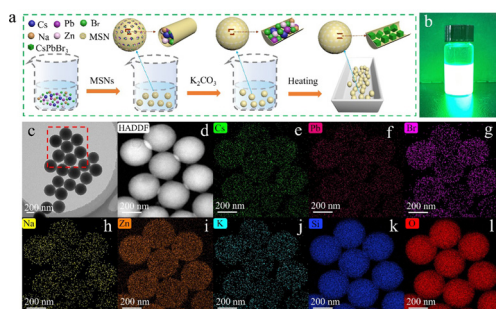
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NiFe₂O₄ nanoflowers with Mo doping for self-powered hydrogen production at large current density

Xinxin Zheng, Zhuo Wang, Decheng Zeng, Yu Qiao, Zihan Li, Juan Jian* and Hongming Yuan*

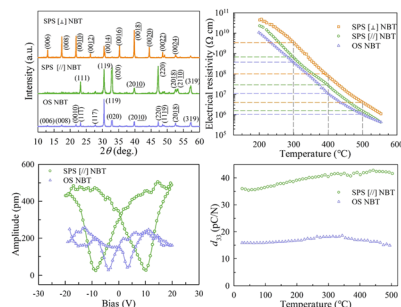
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Hai Huang, Shengnan Yin, Zhengbo Fu, Chunyan Cao, Ruidan Zhang, Daqin Chen* and An Xie*

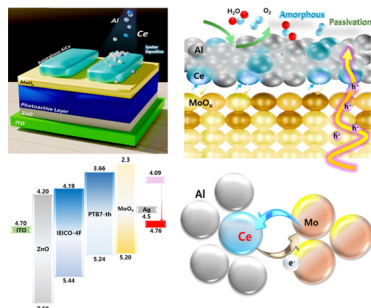
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Evolution of charge pathways through amorphous aluminum–cerium electrode for stable organic photovoltaics

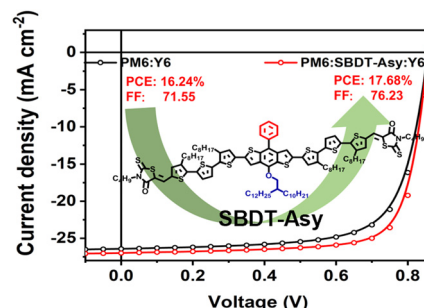
Jae Sang Cho, Woongsik Jang, Keum Hwan Park and Dong Hwan Wang*



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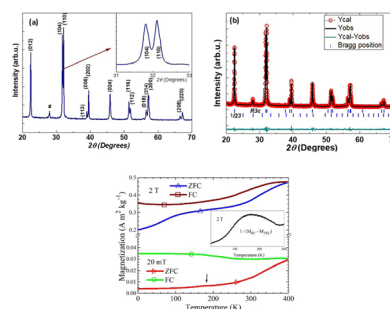
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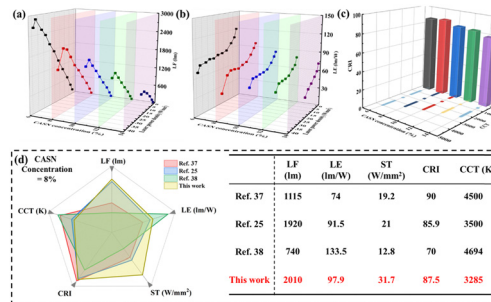
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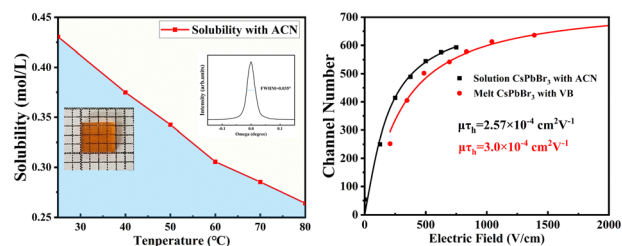
Hongjin Zhang, Mingxi Liang, Han Chen, Jiuzhou Zhao,
Ning Li, Ziliang Hao, Mingxiang Chen, Xiaowei Liu* and
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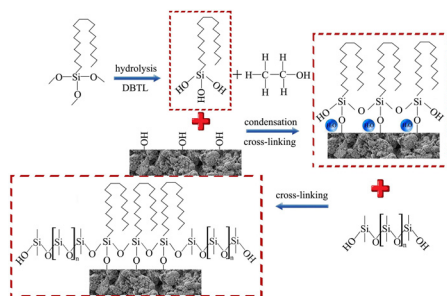
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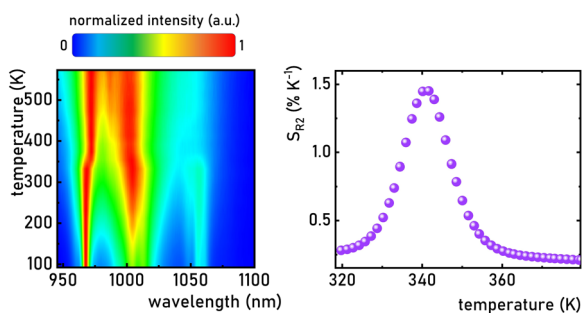
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Study on the corrosion resistance and antibiofouling performance of mortars with slippery liquid-infused porous surfaces based on fine coral powder

Yayun Zhao, Qing Wang,* Xu Zheng, Rui Zhang and Ning Wang

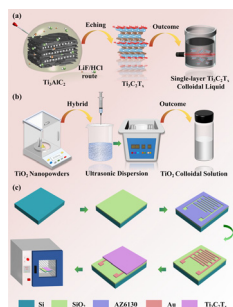
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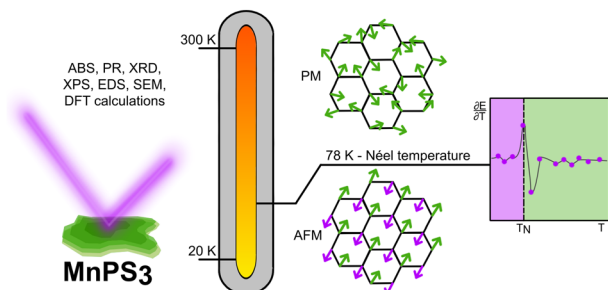
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A high performance $\text{TiO}_2@\text{Ti}_3\text{C}_2\text{T}_x$ MXene water vapor sensing material for diagnosing early SGTR accidents in nuclear power plants

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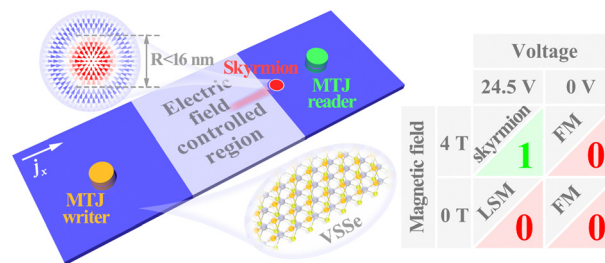
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Towards room-temperature stable topological magnetic semiconductors based on two-dimensional Janus vanadium chalcogenides

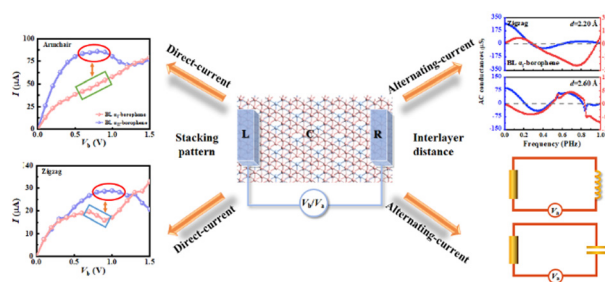
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The direct-current and alternating-current transport properties of bilayer α - and α^+ -borophenes

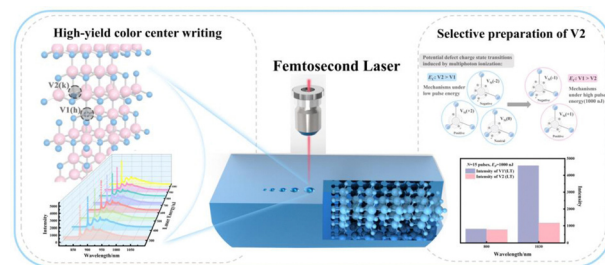
Yajing Wang, Zhi Yang,* Li-Chun Xu, Lin Xue, Ruiping Liu and Xuguang Liu



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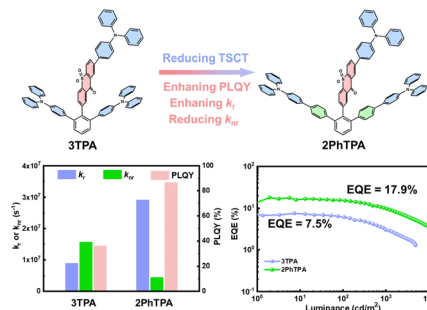
Xiaoqing Liu, Yan Liu, Chengrui Tian, Runsheng Zheng, Yan Li, Junlei Wang, Qingbo Li* and Xian Zhao*

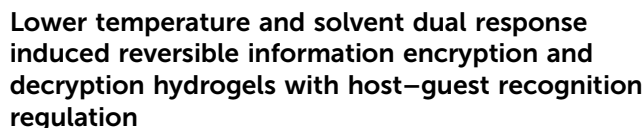


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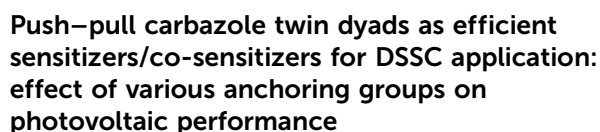
Optimizing through-space charge transfer in thermally activated delayed fluorescence emitters for enhanced OLED efficiency

Zhi Pang, Shaogang Shen, Xin Xie, Xinyi Lv, Yifan Liu, Jianjun Liu* and Ying Wang*

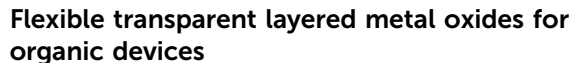




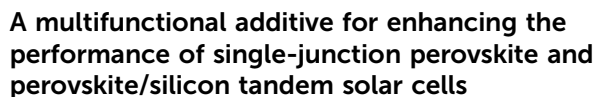
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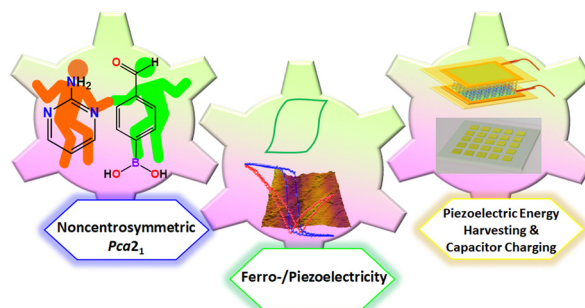
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A boronic acid-based neutral two-component ferroelectric for piezoelectric energy harvesting and charge-storage applications

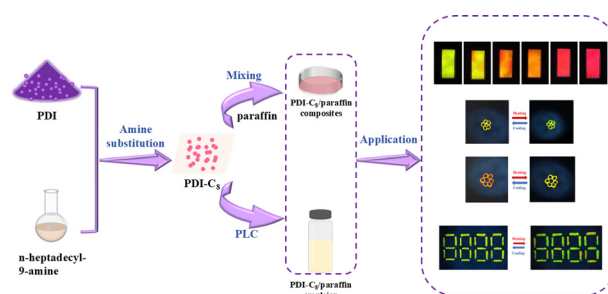
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Novel PDI-C₈/paraffin fluorescent materials with phase-change modulated luminescence for enhanced anti-counterfeiting security feature

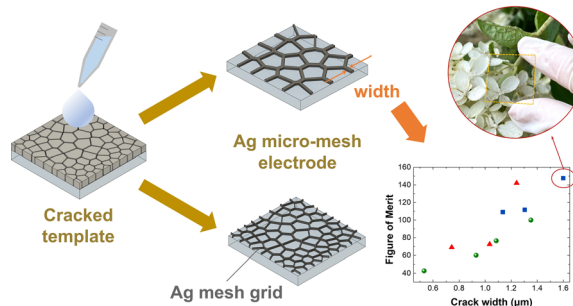
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Optimized electrical and optical properties of Ag micro-meshes by self-generated cracks for transparent electrodes

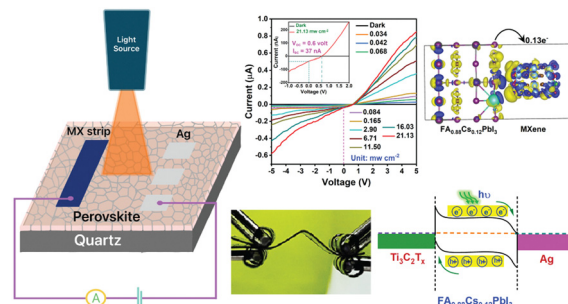
Seung Taek Jo, Jin Wook Shin, Min-Soo Kim, Sang-Shik Park, Walter Commerell, Hyesun Yoo,* Jinyoung Hwang* and Jong Wook Roh*



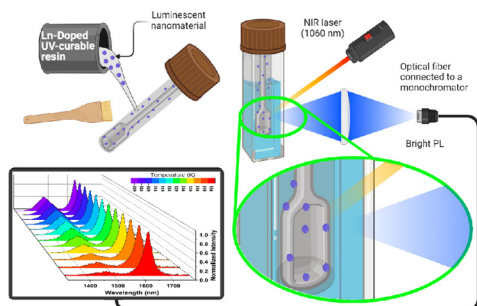
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Asymmetric contact enabled self-powered flexible photodetector utilizing formamidinium-based perovskite with a 2D MXene electrode

Debabrata Sahu, Sanjoy Sur Roy, Koushik Ghosh and P. K. Giri*



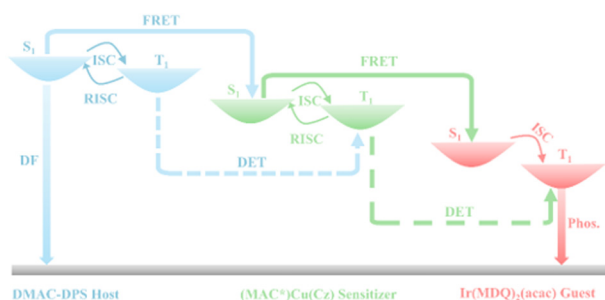
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Photon-avalanche for developing a high-sensitivity 3D-printed optical temperature sensor

Christian Hernández-Álvarez,* Inocencio R. Martín,*
Tomasz Grzyb and Fernando Rivera-López

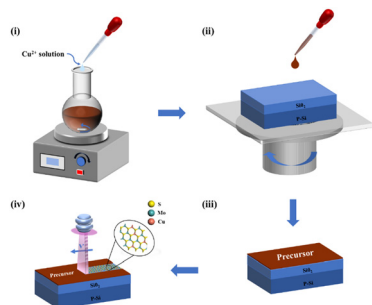
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Color-stable and highly efficient solution-processed white OLEDs with a copper(i) complex as a sensitizer

Zhiling Qi, Jianlong Xie, Qiyin Chen, Shaolong Gong*
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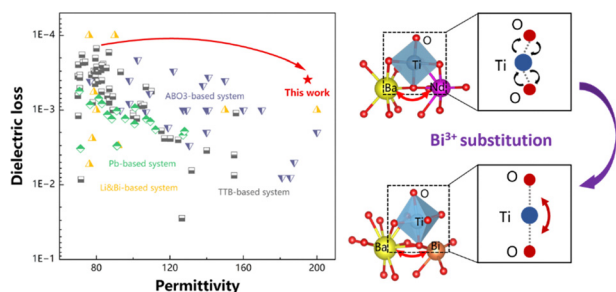
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In situ growth of Cu-doped MoS₂ thin films via a laser-induced technique: efficient P-type doping and effective enhancement of the FET device performance

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Zhang Wenhao, Wei Bo, Hu Yuantai, Yang Wanli and
Zeng Xiangbin*

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Strong polarization in paraelectric tungsten-bronze systems via bond engineering

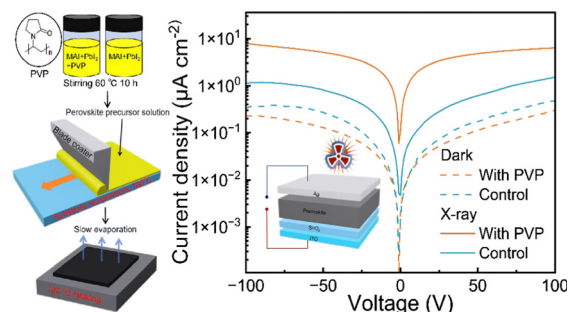
Yiying Chen, Junlei Qi, Bin Wei, Ce-Wen Nan and
YuanHua-Lin*



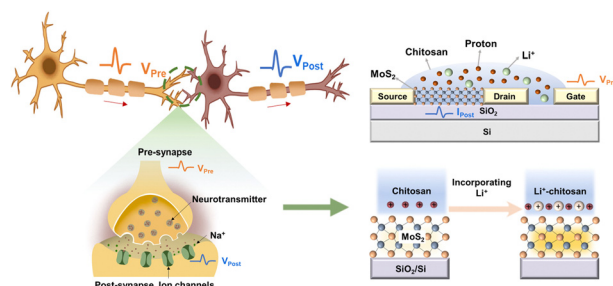
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Polyvinylpyrrolidone-enhanced perovskite films for efficient direct X-ray detection

Yanlong Hua, Jiahui Chen, Cuiling Guo, Shan-Ci Chen,*
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Tunable synaptic plasticity in MoS₂ neuromorphic transistors using Li⁺ incorporated chitosan electrolytesLemei Zhu, Chaoqi Dai, Sikai Chen, Airong Liu,
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Revealing energy transfer mechanisms and accelerating intelligent detection: Cr³⁺ and Ni²⁺ co-doped Lu₂CaMg₂Si₃O₁₂ phosphors for NIR applicationsZaidong Chen, Yuefei Xiang, Xinghui Qin, Lei Zhong,
Hong Liao, Shiwen Liu, Jiaqi Wang, Kezhi Zheng,
Dejian Hou, Lei Zhou* and Mingmei Wu