

Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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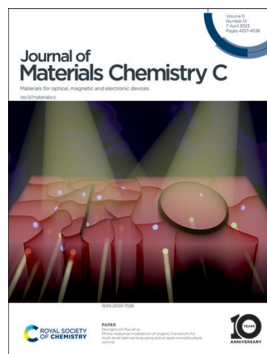
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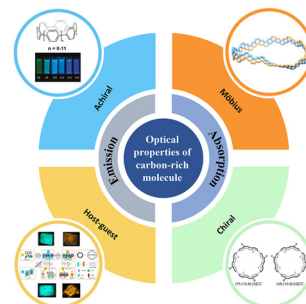
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Carbon-rich macrocycles and carbon nanoribbons as unique optical materials

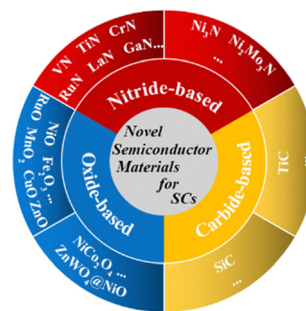
Yun-Jia Shen, Ke-Lin Zhu, Jia-Qi Liang, Xin Sun and Han-Yuan Gong*



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Novel semiconductor materials for advanced supercapacitors

Chang Liang, Shouzhi Wang,* Shiyu Sha, Songyang Lv, Guodong Wang, Benfa Wang, Qiubo Li, Jiaoxian Yu,* Xiangang Xu and Lei Zhang*



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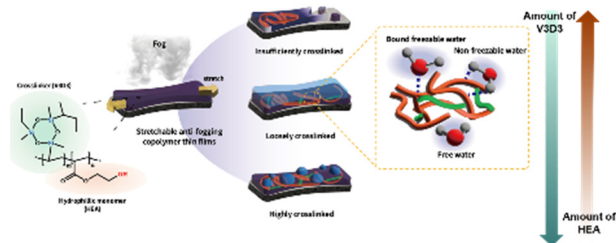
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One-step synthesis of a robust, ultrathin, stretchable antifogging copolymer film

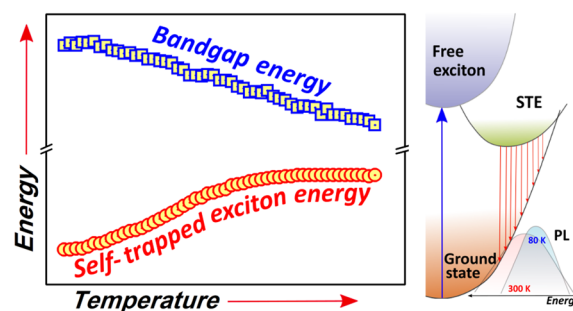
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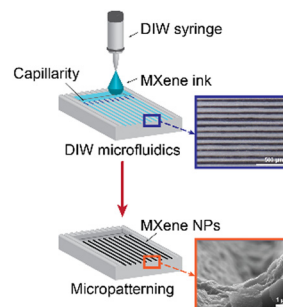
Oleksandr Stroyuk,* Oleksandra Raievska, Andres Osvet, Jens Hauch and Christoph J. Brabec



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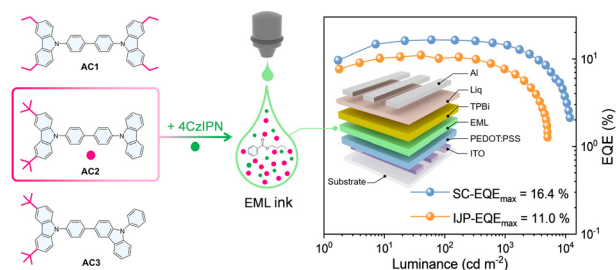
Sayli Jambhulkar, Dharneedar Ravichandran, Barath Sundaravadivelan and Kenan Song*



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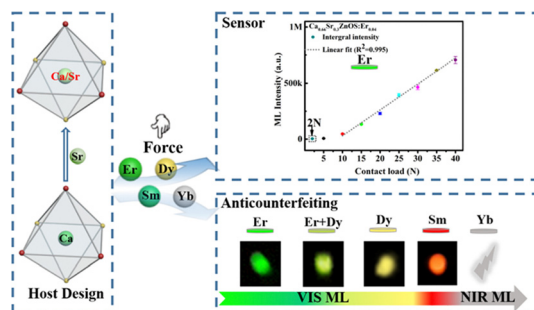
Molecularly engineered host materials for high performance inkjet-printed thermally activated delayed fluorescence organic light-emitting diodes

Honghui Wei, Yuan-Qiu-Qiang Yi,* Yanping Song, Liming Xie, Yang Liu, Zhipeng Wei, Qian Dai, Xiuqing Meng,* Wenming Su and Zheng Cui



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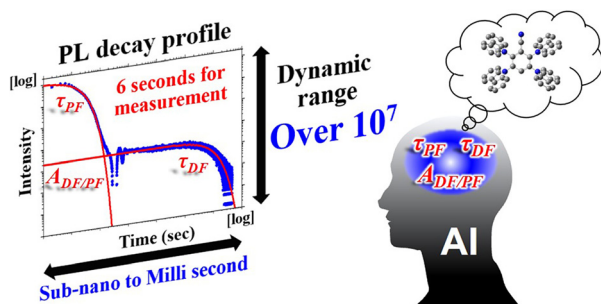


Alkaline-earth-metal-ion blending enhanced mechanoluminescence of lanthanide ions in MZnOS hosts for stress sensing and anticounterfeiting

Jingna Jia, Dongyang Wang, Xuwen Gao, Yuqi Xu, Xiaoxuan Ren and Guizheng Zou*

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High-throughput transient photoluminescence spectrometer for deep learning of thermally activated delayed fluorescence materials

Minori Furukori, Yasushi Nagamune, Yasuo Nakayama and Takuya Hosokai*

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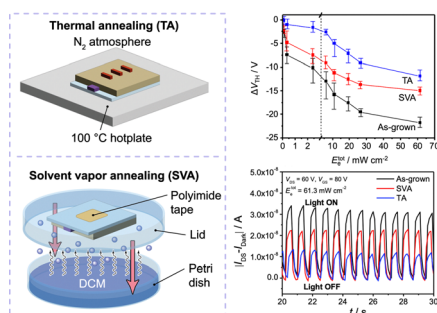
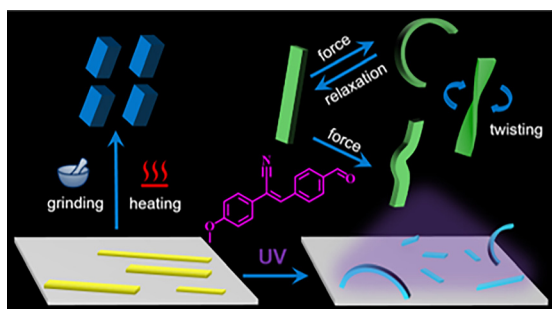


Photo-response modulation of organic transistors for multi-level light sensing using active layer microstructure control

Dohyeong Park, Gergely Tarsoly, Dongyub Kwon, Tae Joo Shin and Seungmoon Pyo*

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Zhicheng Jiang, Hongtu Zhao, Wenbo Wu, Kui Chen, Hui Yu, Ting Wang,* Xin Huang, Na Wang, Lina Zhou and Hongxun Hao*

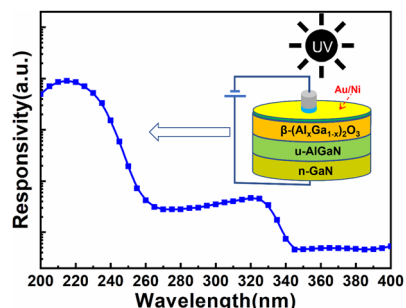


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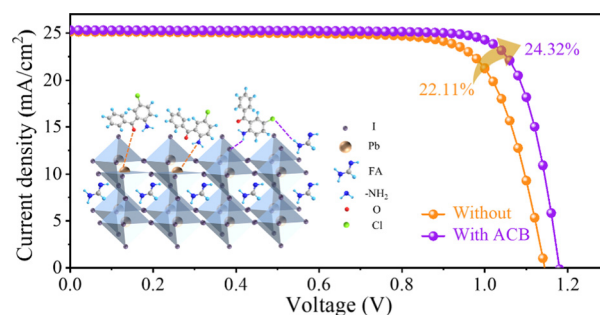
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2-Amino-5-chlorobenzophenone passivating perovskite films using multiple functional groups towards high-performance solar cells

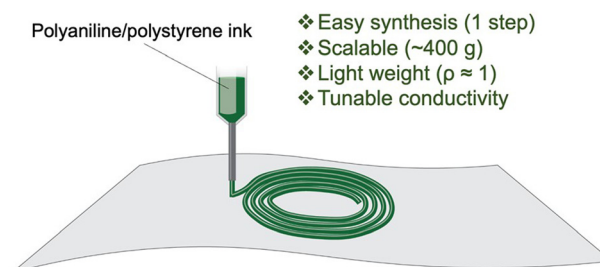
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Additive manufacturing of polyaniline blends for lightweight structures with tunable conductivity

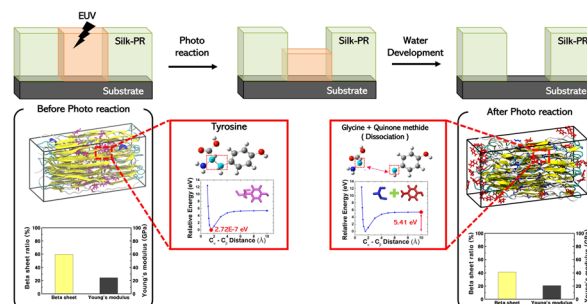
Brandon T. DiTullio, Xiao Kuang, Anna M. Österholm, Augustus W. Lang, Patrick J. Kinlen, Natalie Stingelin, H. Jerry Qi and John R. Reynolds*



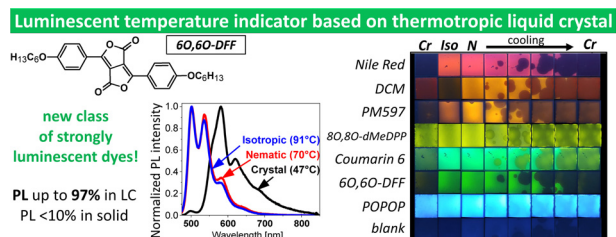
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Silk-based organic photoresists for extreme ultraviolet lithography: a multiscale *in silico* study

Taeyoung Yoon, Wooboum Park, Yoonjung Kim, Hyunsung Choi, Soonchun Chung, Joonsong Park,* Hyun Joon Chang* and Sungsoo Na*



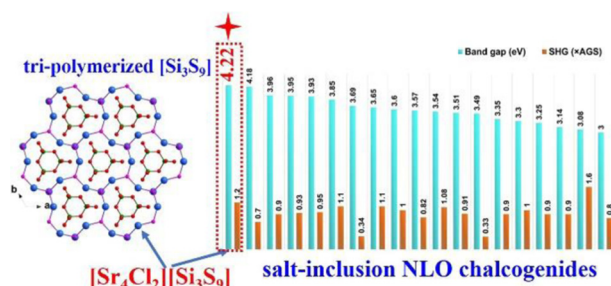
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Novel highly luminescent diketofurofuran dye in liquid crystal matrices for thermal sensors and light amplification

M. Czajkowski,* Ł. Duda, S. J. Czarnocki, A. B. Szukalska, M. Guzik, J. Myśliwiec, M. Skoreński, B. Potaniec and J. Cybińska*

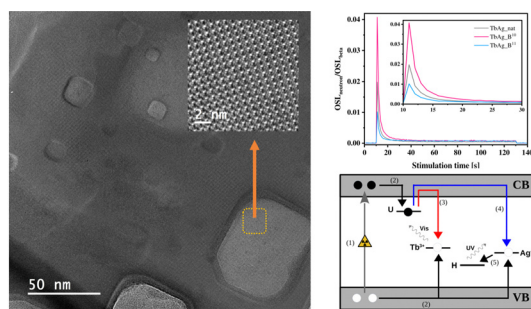
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$[\text{Sr}_4\text{Cl}_2][\text{Si}_3\text{S}_9]$: Ultrawide-bandgap salt-inclusion thiosilicate nonlinear optical material with unprecedented tri-polymerized $[\text{Si}_3\text{S}_9]$ clusters

Chenyao Zhao, Kui Wu,* Yan Xiao, Bingbing Zhang, Haohai Yu* and Huaijin Zhang

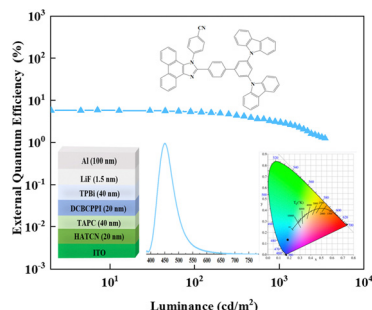
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A Tb and Ag co-doped borate compound forms a high sensitive X-ray, gamma-ray and neutron luminescence dosimeter

Leonardo V. S. França,* Elisabeth Müller, Eduardo G. Yukihara and Oswaldo Baffa

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Rational design of phenanthroimidazole derivatives with hybridized local and charge-transfer characteristics to achieve efficient blue emission in non-doped OLEDs

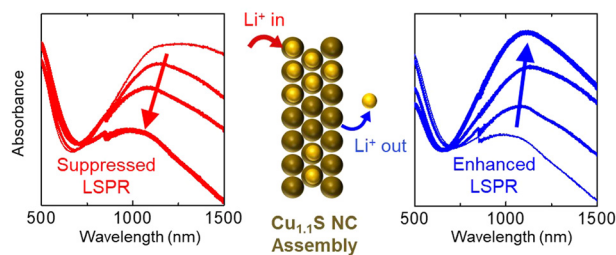
Jinnan Huo, Chenxi Gao, Yinpeng Cao, Heping Shi* and Ben Zhong Tang*



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Electrochemical lithium doping of Cu_{2-x}S nanocrystal assemblies for tuning their near infrared absorbance

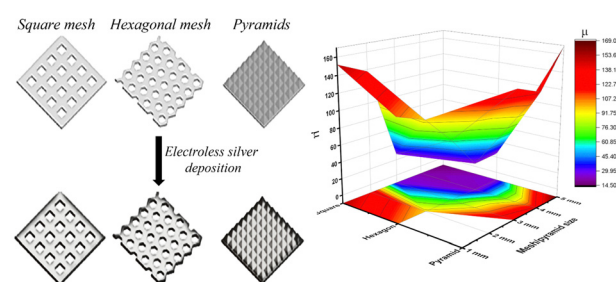
HanKyul Lee, Hyunwoo Jo, Jong Ik Lee, Agni Raj Koirala, Hwihan Cho, Wansoo Huh and Moon Sung Kang*



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Geometry and mesh size control the EMI shielding in 3D printed conducting shape memory PU structures

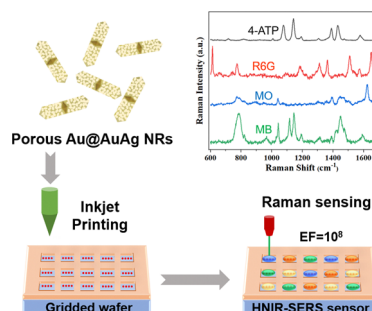
Aishwarya Vijayan Menon, Jagadeshvaran P L and Suryasarathi Bose*



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High-throughput surface-enhanced Raman scattering sensors for near-infrared detection of biochemical molecules

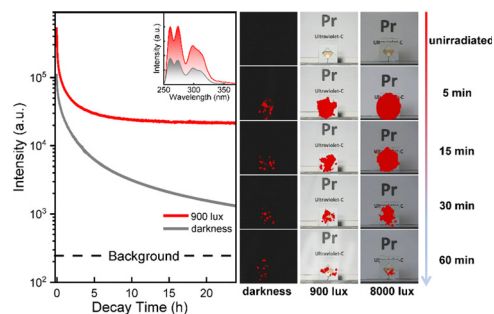
Yifan Wang, Zhiming Chen, Pan Zeng, An Cao, Tao Zhang* and Yue Li*



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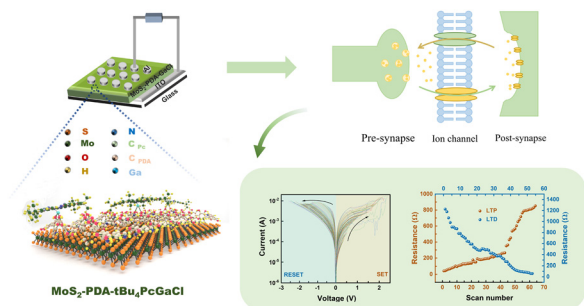
Ambient light stimulation enabling intense and long-lasting ultraviolet-C persistent luminescence from Pr^{3+} -doped YBO_3 in bright environments

Xulong Lv, Xihui Shan, Yi Zhang and Yanjie Liang*



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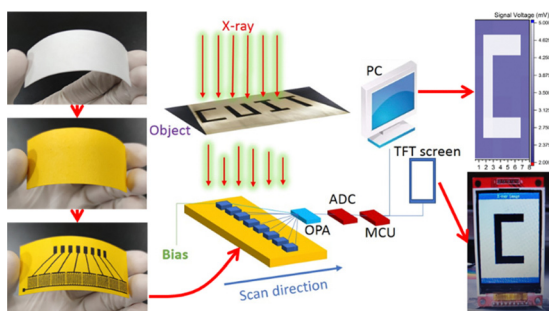
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Bio-inspired surface modification of MoS₂ nanosheets with gallium phthalocyanine for brain-like synaptic memristors

Qizhi Jiang, Bin Zhang,* Qing Yan, Fei Fan, Gang Liu* and Yu Chen*

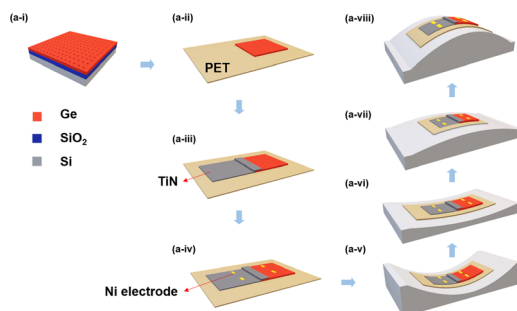
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Nanocrystalline PbI₂ coated on a cellulose fiber frame for paper-based flexible X-ray detection

Hui Sun,* Qianfa Su, Shuo Wang, Yizhen Liu, Xiuying Gao, Qiya Liu, Chuan Tang, Tixian Zeng and Dingyu Yang

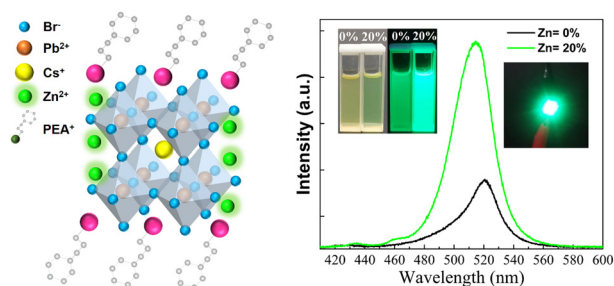
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Flexible TiN/Ge photodetectors with enhanced responsivity *via* localized surface plasmon resonance and strain modulation

You Jin Kim, Shu An, Yikai Liao, Po-Rei Huang, Bongkwon Son, Chuan Seng Tan, Guo-En Chang and Munho Kim*

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Improved exciton photoluminescence of Zn-doped quasi-2D perovskite nanocrystals and their application as luminescent materials in light-emitting devices

Lei Song, Qiong Zhang, Shahid Ullah, Kangning Liu, Yuxin Liu and Jun Dai*

