

Journal of Materials Chemistry C

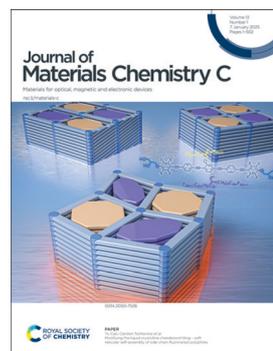
Materials for optical, magnetic and electronic devices

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ISSN 2050-7526 CODEN JMCCCC 13(1) 1-502 (2025)



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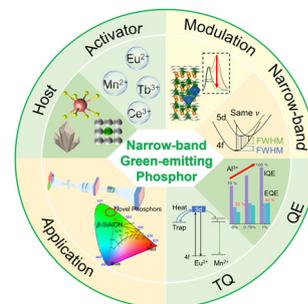
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REVIEW

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High-performance, narrow-band green-emitting phosphors for white LEDs: recent advances and perspectives

Yujia Wan, Dongjie Liu, Wei Yang, Yingsheng Wang, Min Zhang, Hongzhou Lian,* Peipei Dang,* Guogang Li* and Jun Lin*

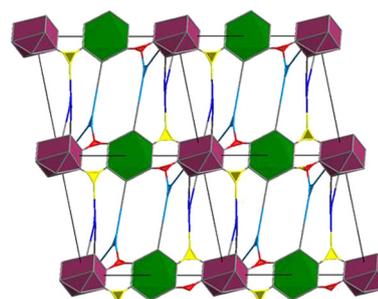


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Accessing mixed cluster rare-earth MOFs with reduced connectivity *via* linker expansion and desymmetrization: co-assembly of 6-c and 10-c hexanuclear clusters in RE-stc-MOF-1

Edward Loukopoulos, Constantinos Tsangarakis, Konstantinos G. Froudas, Maria Vassaki, Giasemi K. Angeli and Pantelis N. Trikalitis*



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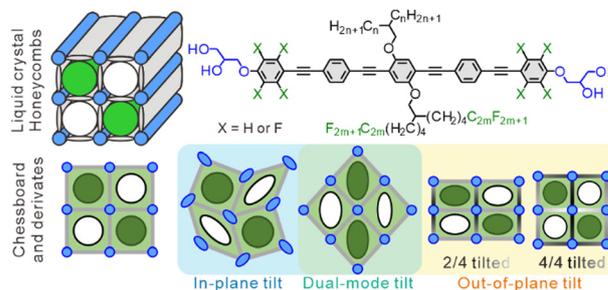
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Modifying the liquid crystalline chessboard tiling – soft reticular self-assembly of side-chain fluorinated polyphiles

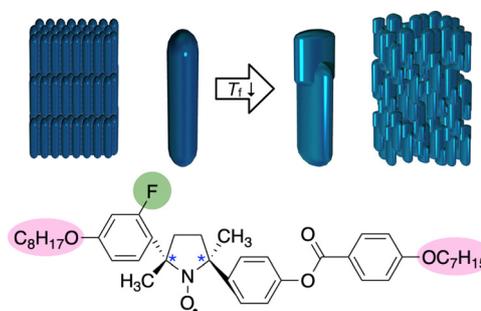
Christian Anders, Virginia-Marie Fischer, Tianyi Tan, Mohamed Alaasar, Rebecca Waldecker, Yubin Ke, Yu Cao,* Feng Liu and Carsten Tschierske*



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Low-temperature liquid-crystalline nitroxide radical

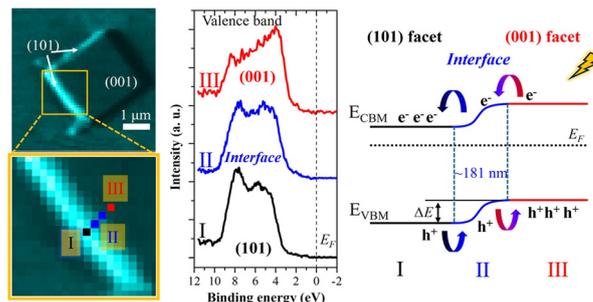
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Facet-dependent photocatalytic performance and electronic structure of single-crystalline anatase TiO₂ particles revealed by X-ray photoelectron spectromicroscopy

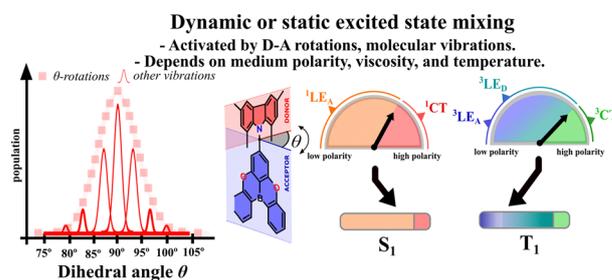
Wenxiong Zhang,* Mustafa Al Samarai, Haochong Zhao, Daobin Liu, Hisao Kiuchi, Ralph Ugalino, Sen Li, Fangyi Yao, Qi Feng and Yoshihisa Harada*



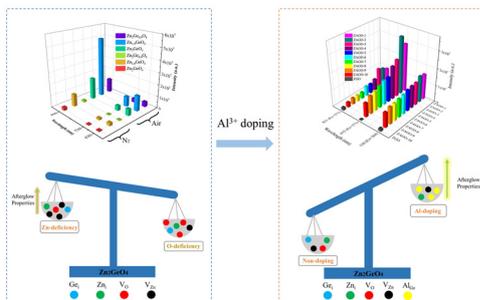
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Experimental evidence of the excited-state mixing in the blue emitter for organic light-emitting diodes

Vladyslav Ievtukhov, Michał Mońka, Olga Ciupak, Irena Bylińska, Piotr Bojarski, Karol Krzysiński and Illia E. Serdiuk*



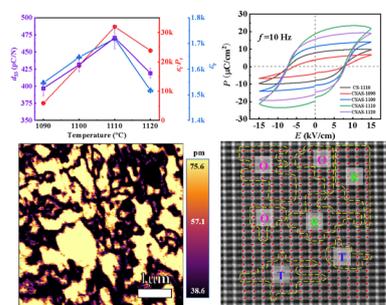
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Tianyu Hu, Jie Yu, Qiqi Zeng, Cong Zhang, Yuanjie Teng, Kang Shao and Zaifa Pan*

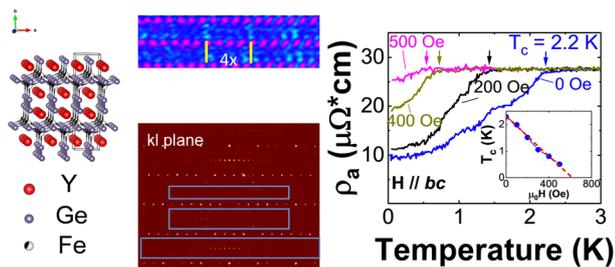
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Enhanced electrical properties of lead-free sodium potassium niobate piezoelectric ceramics prepared via cold sintering assisted sintering

Yao Huang, Xinyue Song, Renbing Sun, Hai Jiang, Peng Du and Laihui Luo*

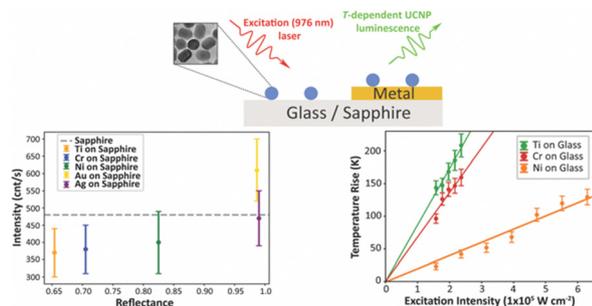
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Metal surface effects on single upconverting nanoparticle luminescence and thermometry signals

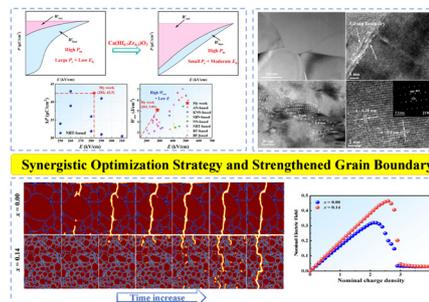
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Achieved excellent energy storage performance under moderate electric field in BaTiO₃-modified Bi_{0.5}Na_{0.5}TiO₃-based lead-free ceramics via multiple synergistic design

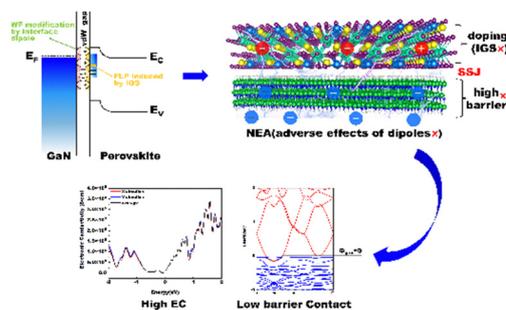
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Weak Fermi level pinning and low barrier interfacial contact: 2D lead-free perovskites on multilayer GaN

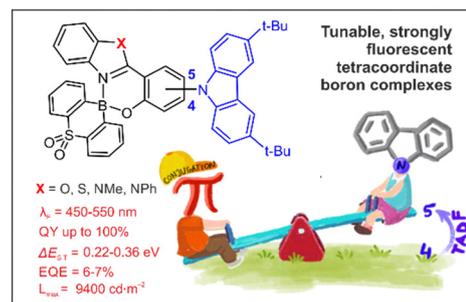
Pengjie Fu, Baolin Wang, Mengni Liu, Guixian Ge, Juan Hou* and Xiaodong Yang*



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Strongly fluorescent spiro-type tetracoordinate complexes of dibenzo[b,e][1,4]thiaborinine dioxide with functionalized 2-(benzo[d]heterazol-2-yl)phenolate ligands displaying TADF

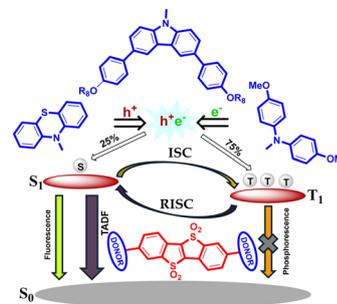
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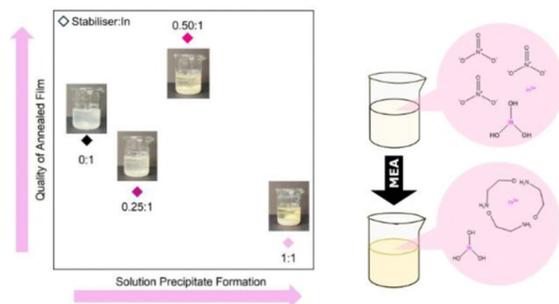
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New [1]benzothieno[3,2-b]benzothiophene-tetraoxide-based TADF emitters with a D-A-D structure for OLED applications

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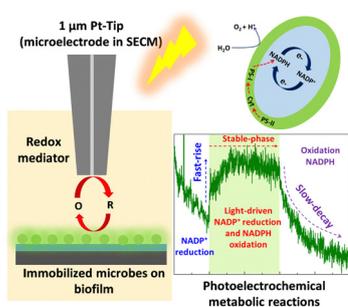
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The influence of stabiliser concentration on the formation of In_2O_3 thin films

Aysha A. Riaz, Curran Kalha, Maria Basso, Máté Füredi and Anna Regoutz*

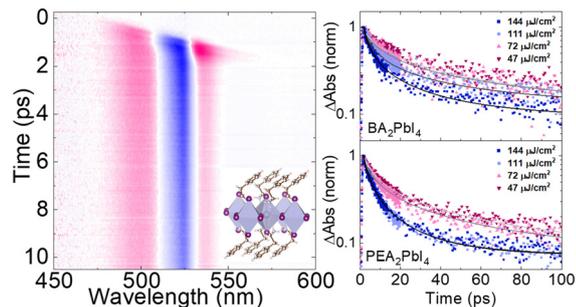
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Single microbe photoelectrochemical device using scanning electrochemical microscopy

Arun Kumar Samuel, Shweta Shinde, Alagammai Palaniappan, Prerna Bhalla and Aravind Kumar Chandiran*

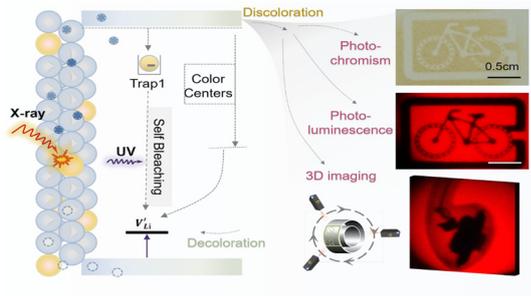
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X-ray-irradiation-induced photoluminescence and photochromic LiNbO_3 phosphors for anti-counterfeiting and X-ray imaging

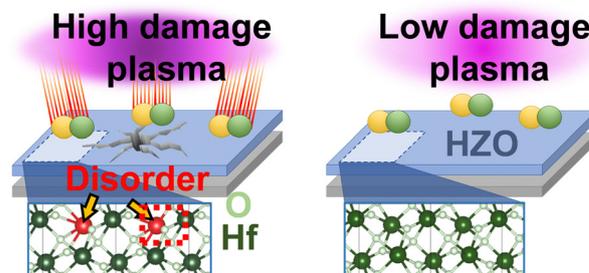
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Damage mitigation as a strategy to achieve high ferroelectricity and reliability in hafnia for random-access-memory

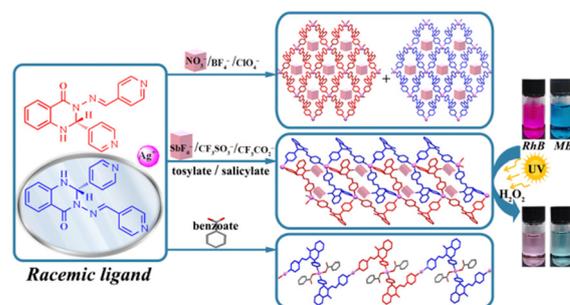
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Anion-induced chiral assembly: construction of Ag(I) coordination polymers for photocatalytic degradation of organic dyes

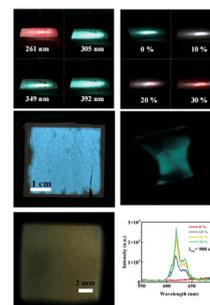
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Multimode stimulated luminescence of LiNbO₃:Pr³⁺/ZnS:Cu/PDMS flexible films

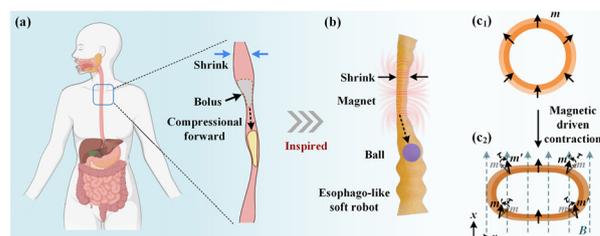
Lidong Wang, Xueting Fu, Peng Du, Hai Jiang and Laihui Luo*



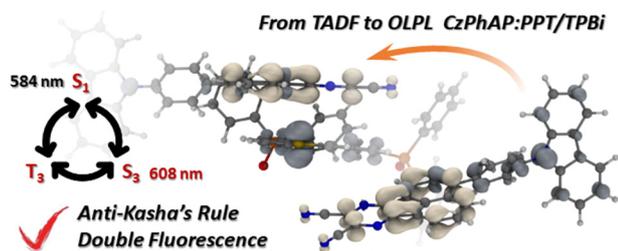
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An esophagus-inspired magnetic-driven soft robot for directional transport of objects

Shanfei Zhang, Qi Wang, Zhuofan Li, Yizhuo Xu and Bin Su*



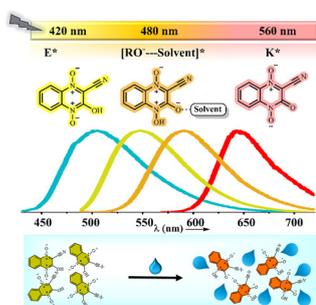
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Yajie Meng, Xi Chen, Yingqi Li, Yunlong Shang, Yulin Guo, Yong Wu,* Haiyan Wei* and Jiawei Xu*

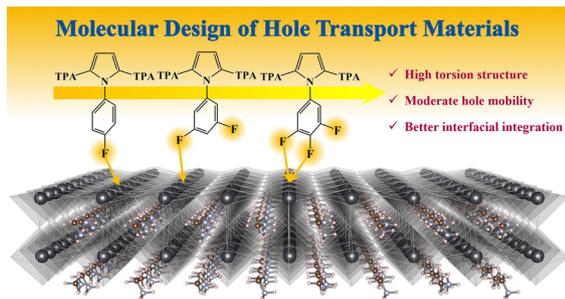
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Wenhui You, Jie Yang* and Quansong Li*

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Fabrication of a high-efficiency hydrogen generation Pd/C₃N₅-K,I photocatalyst through synergistic effects of planar and spatial carrier separation

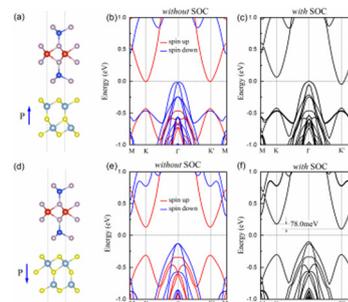
Yanan Gao, Jingjing Wang, Jingxuan Yang, Yajie Wang, Wenjuan Tian* and Bin Liu*



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Nonvolatile electrical control of the electronic and valleytronic properties by ferroelectricity in the $\text{VSi}_2\text{P}_4/\text{Al}_2\text{S}_3$ van der Waals heterostructure

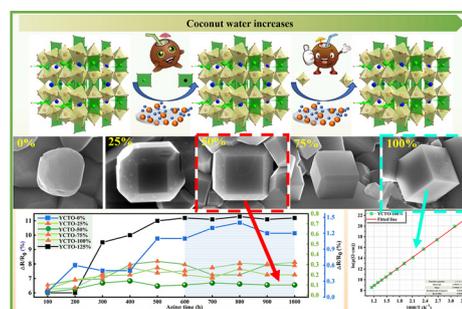
Shoubao Zhang, Na Jiao, Hongyan Lu, Mengmeng Zheng, Ping Zhang and Meiyang Ni*



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Crystal facet tailoring: a promising pathway toward high-performance $\text{Y}_{2/3}\text{Cu}_3\text{Ti}_4\text{O}_{12}$ thermosensitive ceramics

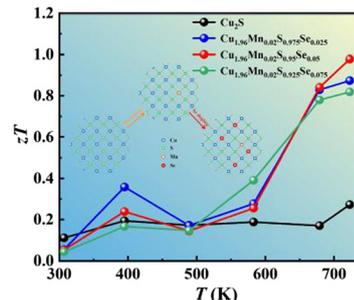
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Mn-doping method boosts Se doping concentration in Cu_2S towards high thermoelectric performance

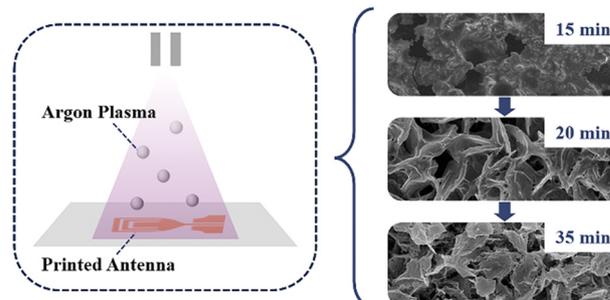
Chen Gong, Zhiwei Zeng, Xiaoling Sun, Chengran Luo and Hongyi Chen*



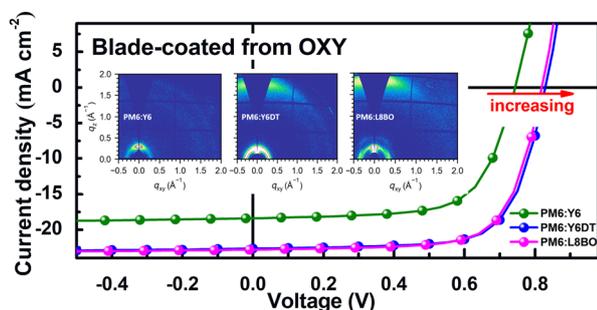
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Plasma-activated copper-alkanolamine precursor paste for printed flexible antenna: formulation, mechanism, and performance evaluation

Wendong Yang,* Zihao Guo, Michael Hengge and Emil J. W. List-Kratochvil*



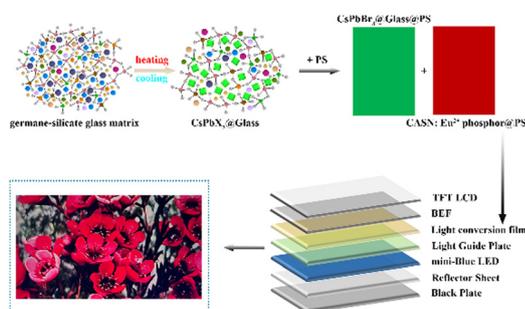
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Improving voltage and quantum efficiency in blade-coated ITO-free organic solar cells processed with a non-halogenated solvent

Cuifen Zhang, Zheng Li, Yi Lin, Zhibo Wang, Huawei Hu, Ming Wang,* Zheng Tang* and Zaifei Ma*

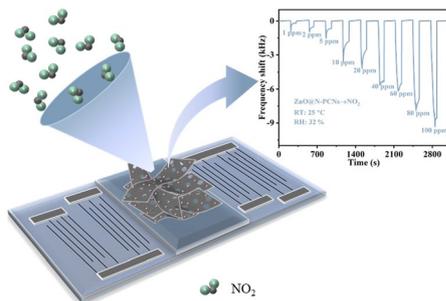
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High stability modified $\text{CsPb}(\text{ClBr})_3$ @glass@PS for wide color gamut mini-LED backlight displays

Enrou Mei, Jiapeng Yang, Yanling Lin, Zhaoping Chen,* Xiaojuan Liang* and Weidong Xiang*

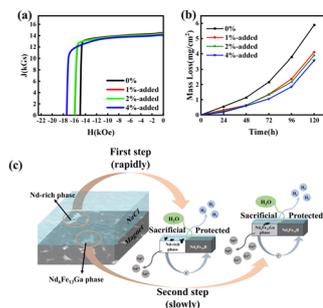
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Enhancing the NO_2 detection ability of surface acoustic wave sensors with ZnO-decorated N-doped porous carbon nanosheets

Xue Li, Yuan Feng, Haifeng Lv, Junjie Shi, Yuanjun Guo,* Sean Li* and Xiaotao Zu*

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Concurrent improvements in coercivity and corrosion resistance for $\text{Nd}_6\text{Fe}_{13}\text{Ga}$ -reconstructed Nd-Fe-B sintered magnets

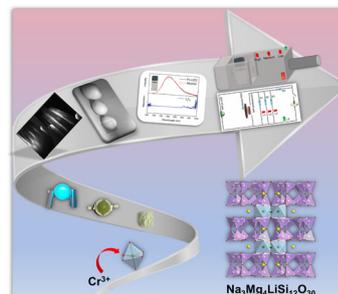
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A novel broadband near-infrared phosphor $\text{Na}_3\text{Mg}_4\text{LiSi}_{12}\text{O}_{30}:\text{Cr}^{3+}$: moderate synthesis and application

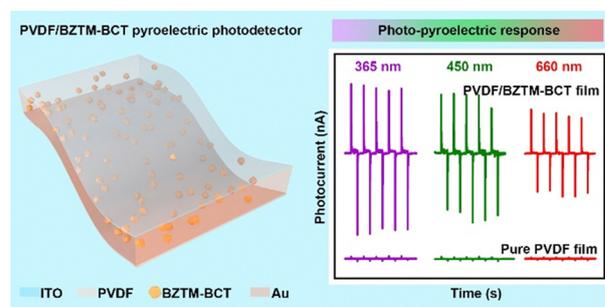
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Boosting the light-driven pyroelectric response of poly(vinylidene difluoride) by constructing Mn-doped BZT-BCT/PVDF composites

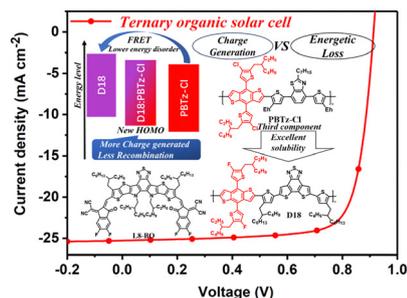
Lu Wang, Feilong Yan, Jifeng Pan, Xiang He, Chen Chen,
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Molecular interaction regulation by adding a third component with high miscibility suppresses the energetic disorder and reduces energy loss for efficient ternary solar cells

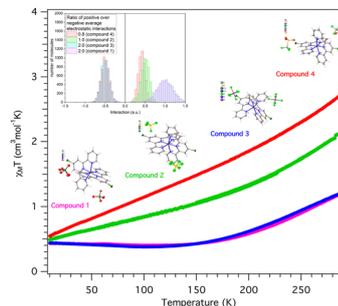
Ruiying Lin, Shichu Peng, Zhenyu Luo, Jiaxin Wu,
Yaocheng Jin, Yanping Huo, Liangang Xiao* and
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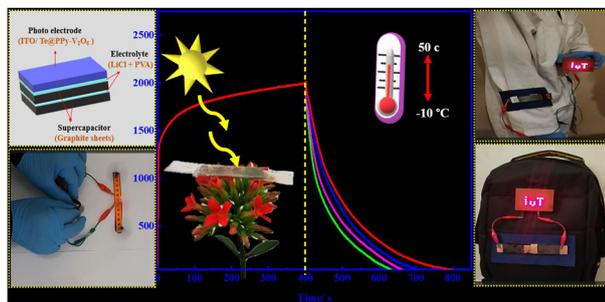
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Variation in the zero-point energy difference via electrostatic interactions in Co(II)-Cltpy-based spin-crossover molecular materials

Mousumi Dutta, Ajana Dutta, Prabir Ghosh,*
Shubhankar Maiti, Laurentiu Stoleriu,
Cristian Enachescu and Pradip Chakraborty*



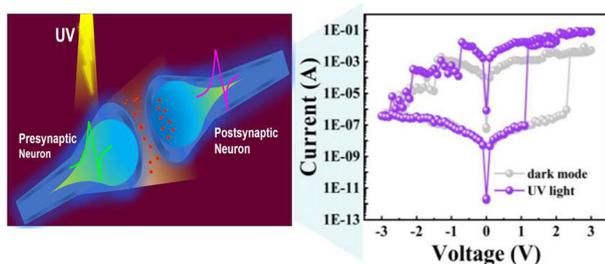
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Lightweight flexible self-powered photo-supercapacitors with good stability through photoelectrochemical deposition of tellurium on PPy-V₂O₅ films as a new visible light active dual photoelectrode

Mohamad Mohsen Momeni,*
Hossein Mohammadzadeh Aydisheh,
Byeong-Kyu Lee* and Ali Naderi

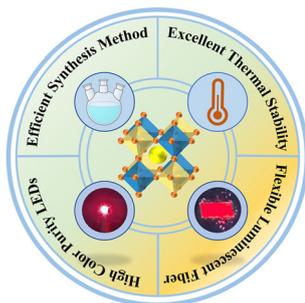
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Optoelectronic stimuli-driven switchable memristors with multilevel resistance states for neuromorphic vision sensors

Pravinraj Selvaraj, Meng-Lin Chen, Sreeshyam Adat and Yu-Wu Wang*

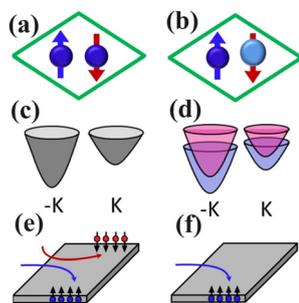
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High stability of robust anti-thermal-quenching lead-free double perovskite crystals for optoelectronic devices and high-performance fibers

Xiaoman Zhang, Yehua Zheng, Kun Nie,*
Xiaodong Zhang, Xiuqiang Duan, Ziyao Hu, Ming Yang,
Lefu Mei, Luoxin Wang, Hua Wang, Mingquan Li and Xiaoxue Ma*

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The isovalent alloying assisted anomalous valley Hall effect in a hexagonal antiferromagnetic monolayer

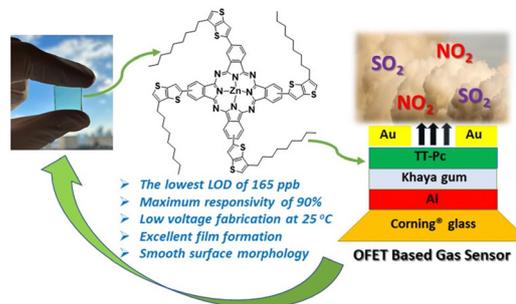
Liguo Zhang, San-Dong Guo,* Xiao-Shu Guo and Gangqiang Zhu



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Highly sensitive OFET based room temperature operated gas sensors using a thieno[3,2-*b*]thiophene extended phthalocyanine semiconductor

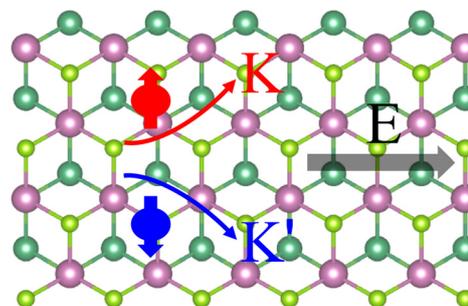
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Jiajun Zhu, Heyun Zhao and Wanbiao Hu*



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Study on the time-resolved detection performance of β -Ga₂O₃-based SBUV photodetectors: surface chemical analysis and the impacts of non-V_O factors

Zeming Li, Rensheng Shen, Wancheng Li, Teng Jiao, Yuchun Chang,* Hongwei Liang,* Xiaochuan Xia and Baolin Zhang*

