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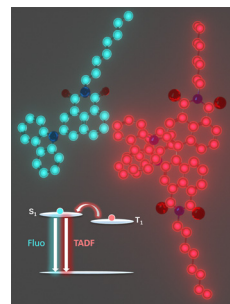


## PAPERS

5968

### A binaphthalimide motif as a chiral scaffold for thermally activated delayed fluorescence with circularly polarized luminescence activity

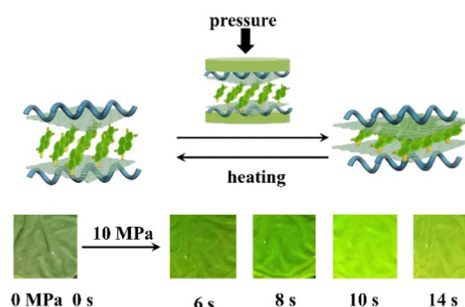
Yugo Tsuji, Natsuko Kanno, Chigusa Goto, Shohei Katao, Yasuo Okajima, Pablo Reine, Paulius Imbrasas, Sebastian Reineke, Katsuyuki Shizu, Takuya Nakashima, Hironori Kaji, Tsuyoshi Kawai\* and Marine Louis\*



5979

### A metastable molecular array guided by the synergy of confinement and charge repulsion for piezochromic sensors

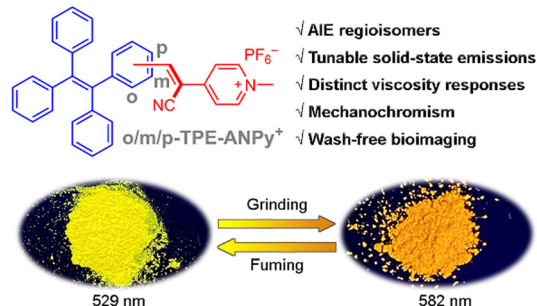
Jing Liu, Ruixing Wang, Xinrui Wang, Kaixiang Liang, Wenying Shi\* and Chao Lu



5987

### Cationic tetraphenylethylene-based AIE-active acrylonitriles: investigating the regioisomeric effect, mechanochromism, and wash-free bioimaging

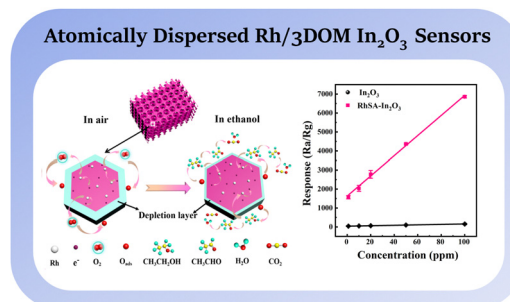
Xiaoyuan Tian, Hui Wang, Shixian Cao, Yunting Liu, Fanda Meng,\* Xiaoyan Zheng\* and Guangle Niu\*



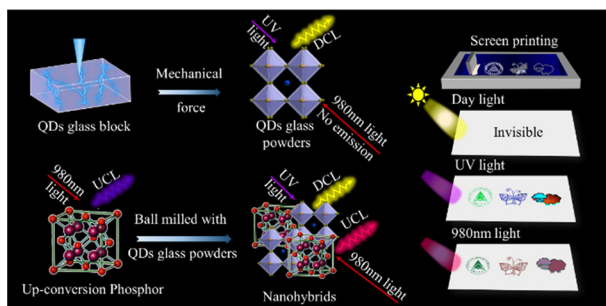
5995

### Atomically dispersed rhodium on ordered macroporous $\text{In}_2\text{O}_3$ for the highly sensitive detection of ethanol and the sensing mechanism

Fubo Gu, Lanlan Zhang, Song Hong, Dongmei Han and Zhihua Wang\*



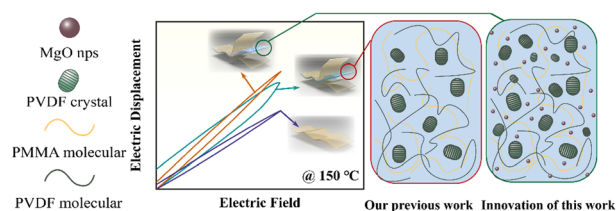
6004



### Nanohybrids with switchable multicolour emission for anticounterfeiting

Yongmin Duan, Siyuan Fu, Zehui Wang, Shiqing Xu and Junjie Zhang\*

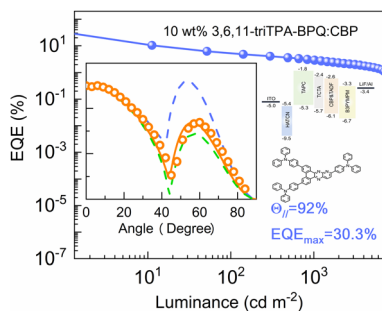
6010



### Achieving high energy density at a low electric field of high-temperature sandwich-structured polymer dielectric composite by PVDF crystallinity regulation

Tianran Zhang, Qinzhaoh Sun, Zepeng Wang, Ruirui Kang, Fang Kang, Rong Xue, Jiping Wang\* and Lixue Zhang\*

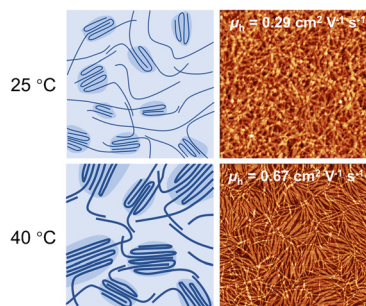
6018



### An electroluminescence efficiency of 30.3% for a yellow thermally activated delayed fluorescence emitter with a high horizontal emitting dipole ratio

Yan-Qing Tang, Jing-Xiong Zhou, Yan-Qing Li,\* De-Zhi Yang, Xin-Yi Zeng, Kai Zhang, Yi-Hui He, Hao Ren, Dong-Ge Ma\* and Jian-Xin Tang\*

6026



### Structural control of charge transport in polymer monolayer transistors by a thermodynamically assisted dip-coating strategy

Chenming Ding, Junyang Deng, Miao Cheng, Mengmeng Li\* and Ling Li



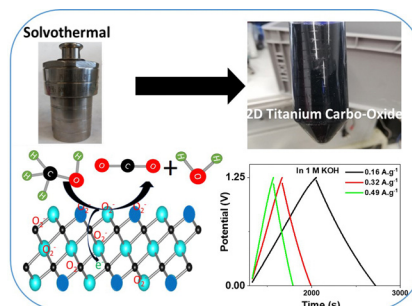


## PAPERS

6034

### Ti<sub>3</sub>AlC<sub>2</sub> MAX phase conversion to a novel 2D titanium carbo-oxide by an eco-friendly and low-cost method: highly selective gas sensing and supercapacitor evaluations

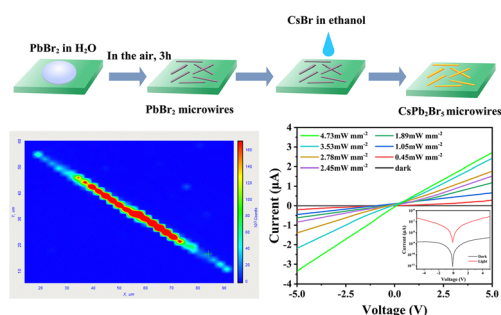
Roussin Lontio Fomekong,\* Jalal Azadmanjiri, Joyce Boitumelo Matsoso, Marco Serra, Sana Akir, Lukáš Dekanovsky, Jan Luxa, Eva Vejmelková and Zdeněk Sofer\*



6046

### Phase evolution and fluorescence stability of CsPb<sub>2</sub>Br<sub>5</sub> microwires and their application in stable and sensitive photodetectors

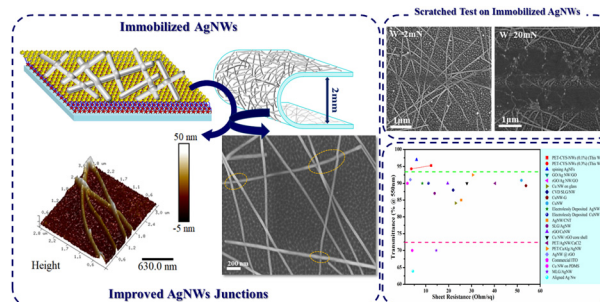
Ning Jiang, Jinwei Wei, Mingjie Lv, Youzhuang Rong, Changmin Wang, Yao Liu, Gongxiang Wei, Xin Han, Yuzhu Wang, Yunyan Liu\* and Huiqiang Liu\*



6057

### Microwave-assisted immobilized silver nanowires on arbitrary substrates: an eco-friendly technique for next-generation transparent, flexible and robust electronics

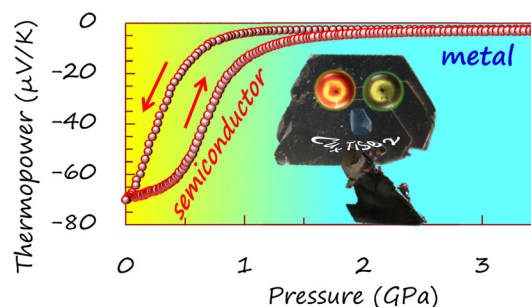
Sara Khademi, Kiyumars Jalili,\* Hao Wang,\* Tianzhun Wu and Bing Song



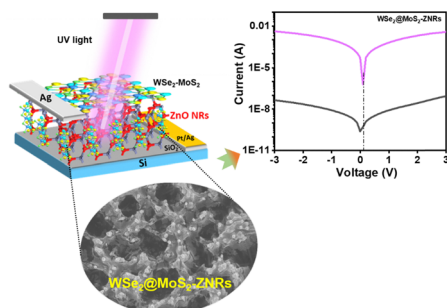
6071

### Controlling the semiconductor–metal transition in Cu-intercalated TiSe<sub>2</sub> by applying stress

Natalia V. Morozova,\* Aleksandr Yu. Usik, Igor V. Korobeinikov, Alexander N. Titov and Sergey V. Ovsyannikov



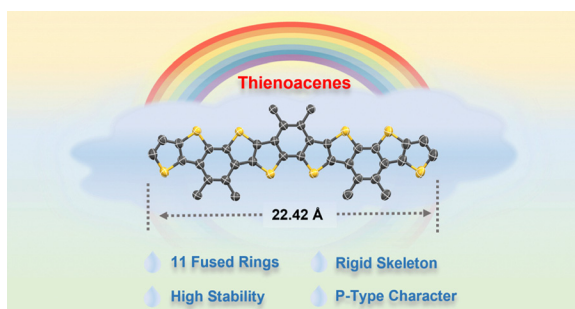
6082



### Tunable defect-engineered nanohybrid heterostructures: exfoliated 2D WSe<sub>2</sub>–MoS<sub>2</sub> nano-hybrid sheet covered on 1D ZnO nanostructures for self-powered UV photodetectors

Adhimoorthy Saravanan,\* Bohr-Ran Huang,\*  
Deepa Kathiravan, Shikha Sakalley and Sheng-Chi Chen\*

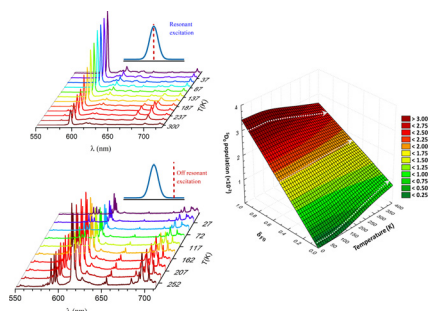
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### Syntheses and properties of 11-ring-fused linear thienoacenes

Shihui Liu, Debin Xia,\* Jinghao Wang, Congwu Ge,  
Sue Hao, Jian Zhang, Ping Wang, Kaifeng Lin,  
Shaoqiang Dong, Evgeny Tretyakov, Yulin Yang\* and  
Xike Gao

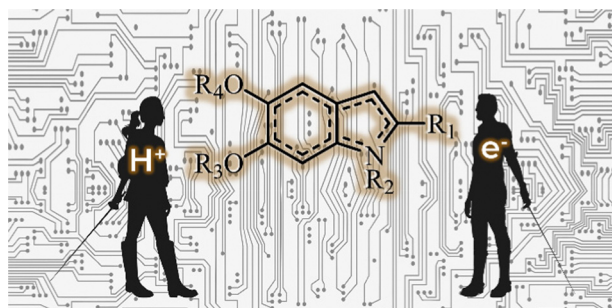
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### Resonance/off-resonance excitations: implications on the thermal evolution of Eu<sup>3+</sup> photoluminescence

Arnab De, Miguel A. Hernández-Rodríguez,  
Albano N. Carneiro Neto,\* Vivek Dwij, Vasant Sathe, Luís  
D. Carlos\* and Rajeev Ranjan\*

6107



### Controlling ions and electrons in aqueous solution: an alternative point of view of the charge-transport behavior of eumelanin-inspired material

João V. Paulin,\* Mariane P. Pereira, Bruna A. Bregadiolli,  
João P. Cachaneski-Lopes, Carlos F. O. Graeff,  
Augusto Batagin-Neto and Carlos C. B. Bufon\*

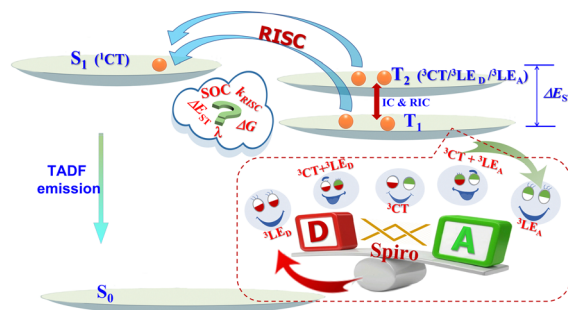


## PAPERS

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### Importance of spin-triplet excited-state character in the reverse intersystem crossing process of spiro-based TADF emitters

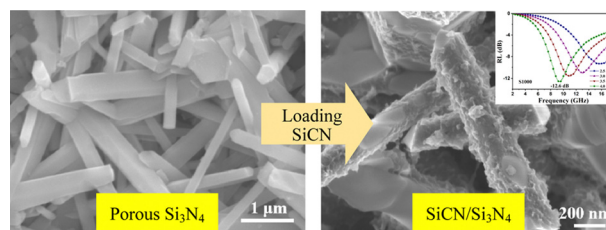
Jiaqi Li, Tian Tian, Dongxue Guo, Tingyu Li, Mingfan Zhang and Houyu Zhang\*



6130

### Increased microwave absorption property of porous $\text{Si}_3\text{N}_4$ ceramics by loading polymer-derived SiCN for a multifunctional design

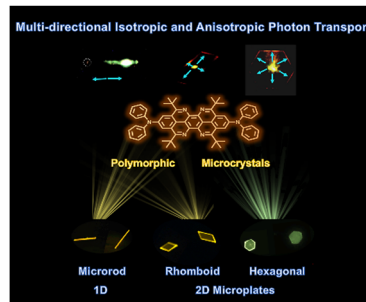
Daoyang Han, Guiqin You, Yi Zhang, Huijie Tian, Jilin He, Junfang Liang, Hailong Wang, Chang-An Wang, Rui Zhang and Gang Shao\*



6138

### Diphenylamine substituted 5,6,12,13-tetraazaperopyrene based polymorphic microcrystals versatile in multi-directional isotropic and anisotropic photon transport

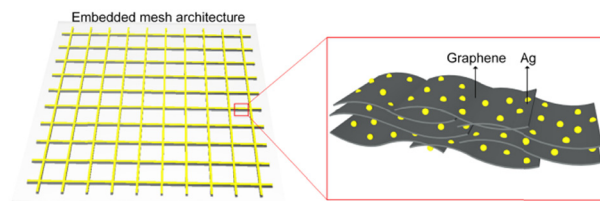
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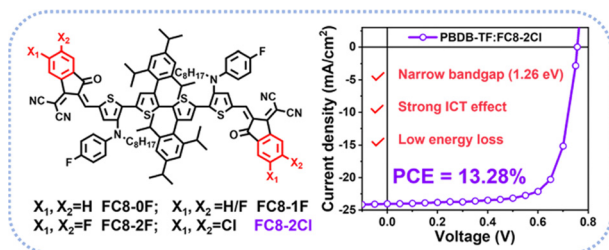
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### Micro–nano dual-scale embedded graphene/Ag architectures for flexible low-voltage-driven transparent electrothermal films

Bangbang Nie, Huiqian Song, Benkun Lv, Xinyi Xiong, Guochen Qi, Yudong Zhang, Jingjiang Qiu, Xiangming Li,\* Jinyou Shao and Zonhan Wei\*



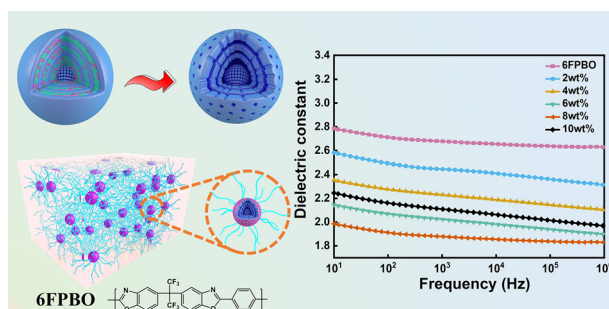
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### Completely non-fused ring acceptors with low non-radiative energy loss enabled by end-group modulation

Hao Li, Jiayao Li, Chenyi Yang, Jingwen Wang, Du Hyeon Ryu, Lijiao Ma, Yi Yang, Won Suk Shin, Shaoqing Zhang\* and Jianhui Hou

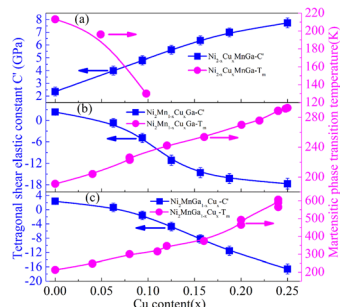
6162



### An ultralow- $k$ dielectric derived from a fluorinated polybenzoxazole composite film with yolk-multishell mesoporous silica nanostructures

Zhe Zhang, Peng He, Wenjun Ma, Peiyuan Zuo,\* Xiaoyun Liu and Qixin Zhuang\*

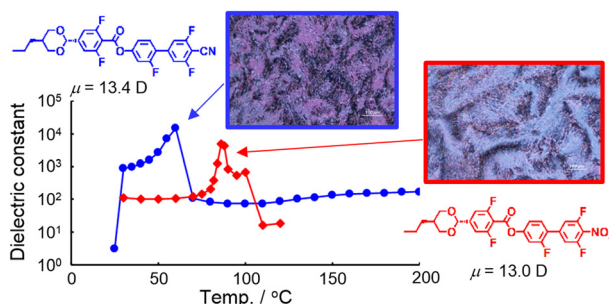
6173



### A unified physical mechanism for martensitic phase transition and ductility in Ni-Mn-based ferromagnetic shape memory alloys: the case of Cu-doped $Ni_2MnGa$

Guijiang Li,\* Lei Xu and Zhenhua Cao

6183



### Synthesis of liquid crystals bearing 1,3-dioxane structures and characterization of their ferroelectricity in the nematic phase

Hiroyuki Matsukizono, Koki Iwamatsu, Sota Endo, Yasushi Okumura, Shizuka Anan and Hirotsugu Kikuchi\*





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Jinjin Wang, Xueqiang Ji, Song Qi, Zhitong Li,  
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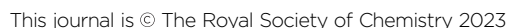
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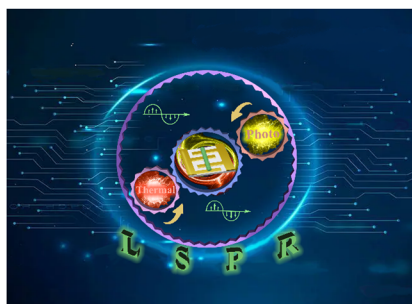


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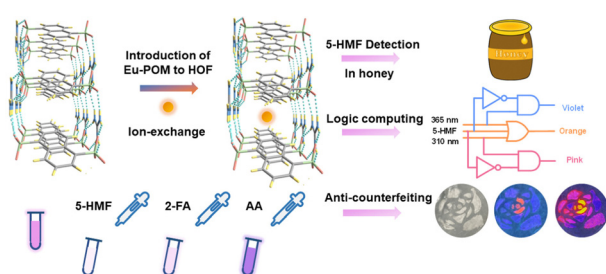
6227



### A high-performance UV photodetector with superior responsivity enabled by a synergistic photo/thermal enhancement of localized surface plasmon resonance

Luxia Zheng, Yang Yang,\* Chris R. Bowen, Lan Jiang, Zhan Shu, Yun He, Hongli Yang, Zongzhuo Xie, Taixu Lu, Feng Hu\* and Weiyong Yang

6239



### A multifunctional fluorescent platform based on polyoxometalate-functionalized HOFs for 5-hydroxymethylfurfural, 2-furaldehyde and ascorbic acid sensing, logic computing and anti-counterfeiting

Zishuo Zhang, Xin Xu and Bing Yan\*

