

Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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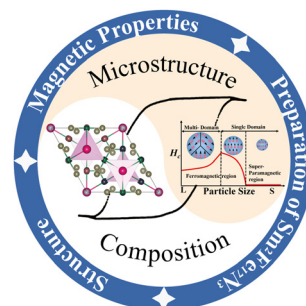
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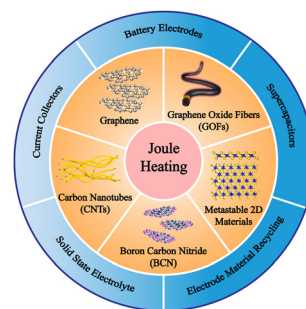
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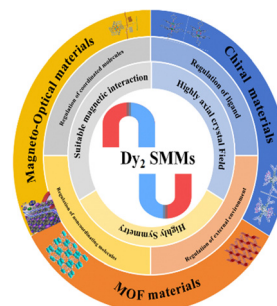
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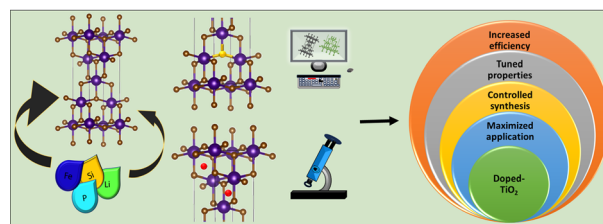
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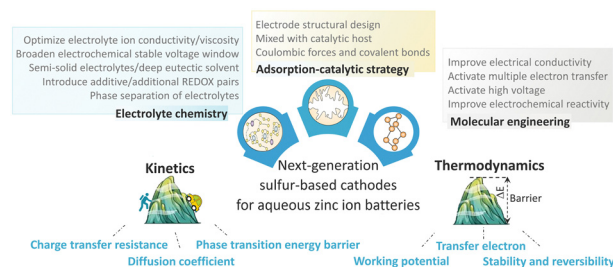


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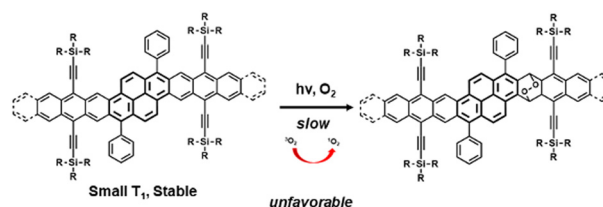


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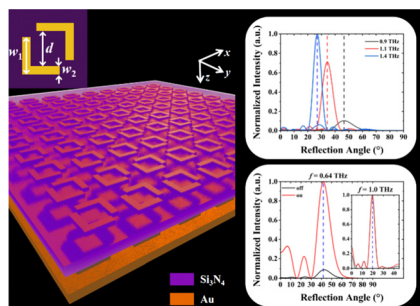
Impact of pyrene orientation on the electronic properties and stability of graphene ribbons

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COMMUNICATIONS

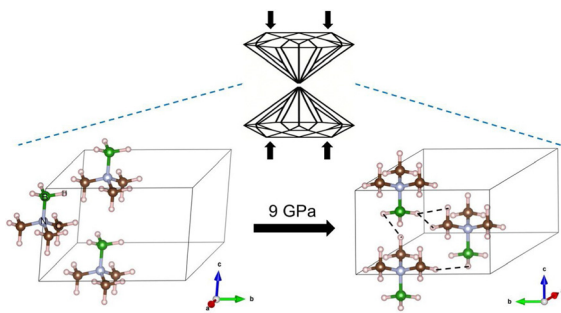
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Yuhao Liang, Yuxin Liu, Weikai Huang and Yu-Sheng Lin*

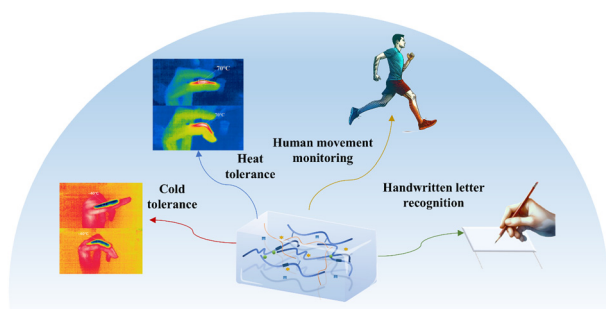
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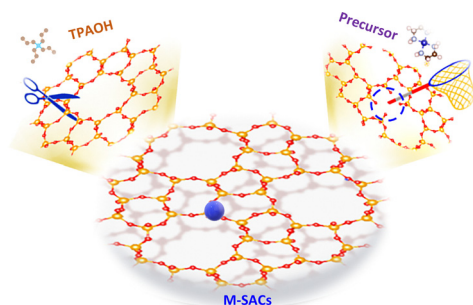
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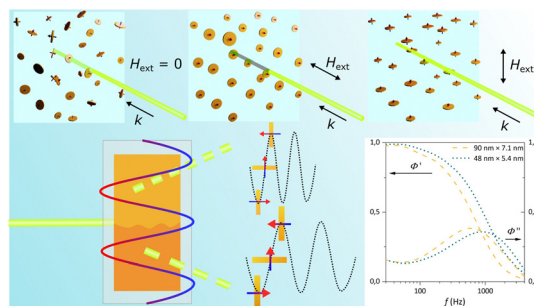


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Hard magnetic colloidal nanoplates with tunable size for magneto-optical applications

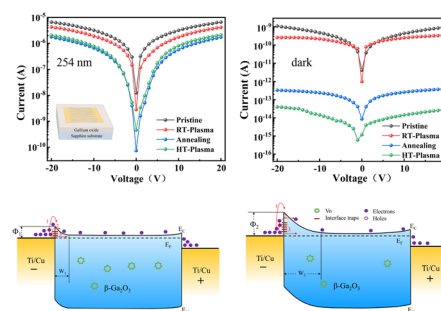
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Ultralow dark current and high specific detectivity of Ga₂O₃-based solar-blind photodetector arrays realized via post-annealing in oxygen plasma

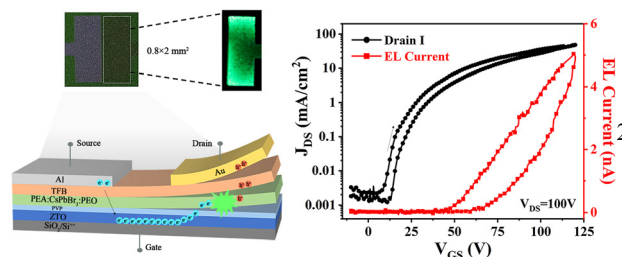
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Enhanced light-emitting transistors utilizing multi-dimensional CsPbBr₃ perovskite films and PVP-modified ZTO semiconductor layers

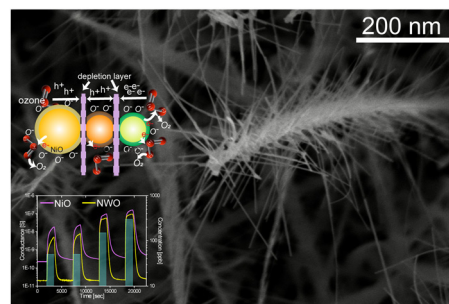
Xingyu Zhang, Min Guo, Jia Li, Bo Song, Fanwen Meng, Zitong Wang, Zhidong Lou, Yanbing Hou, Yufeng Hu* and Feng Teng*



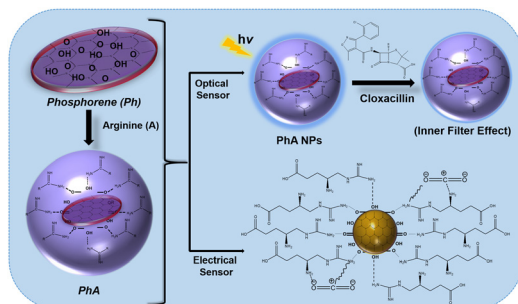
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3D-(p/p/n) NiO/NiWO₄/WO₃ heterostructures for the selective detection of ozone

Navpreet Kaur* and Elisabetta Comini



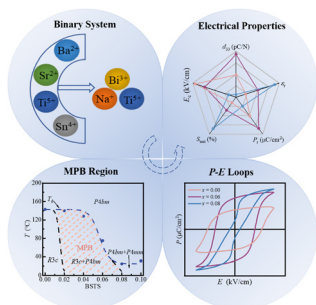
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Amino acid functionalized phosphorene: an optical sensing platform for the detection of antibiotic residues in milk and a clay based electrical CO₂ sensor

Nasrin Sultana, Palash Jyoti Medhi and Neelotpal Sen Sarma*

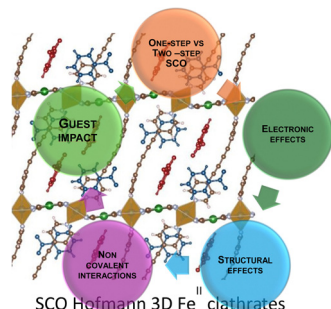
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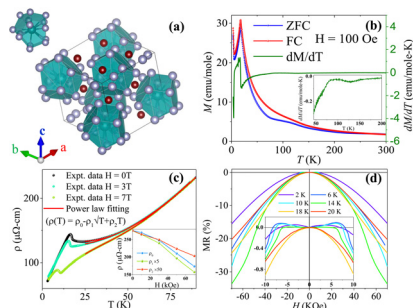
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Guest-dependent spin transitions in Hofmann-like Fe^{II} SCO metal–organic frameworks: hints from quantum chemistry calculations

David Arias-Olivares, Rocío Sánchez de Armas and Carmen J. Calzado*

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Unraveling extraordinary magnetoresistance in GdFe₂Al₁₀: a comprehensive exploration of transport and magnetism for technological applications

Koustav Pal,* Suman Dey and I. Das

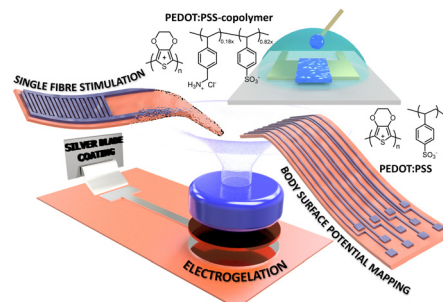


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Electrogelation of PEDOT:PSS and its copolymer for bioelectronics

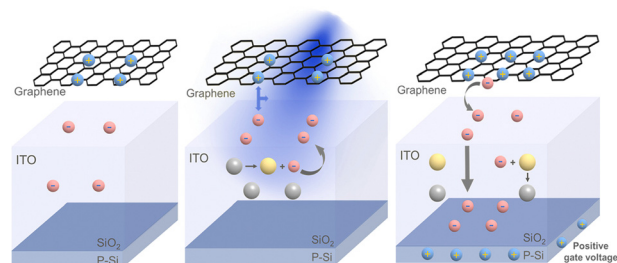
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Graphene enhanced charge transfer in ITO optoelectronic synapses for artificial vision systems

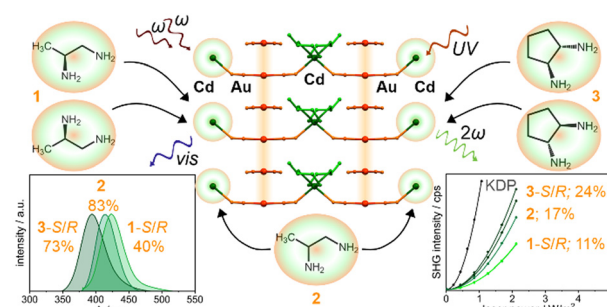
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Chiral cadmium–amine complexes for stimulating non-linear optical activity and photoluminescence in solids based on aurophilic stacks

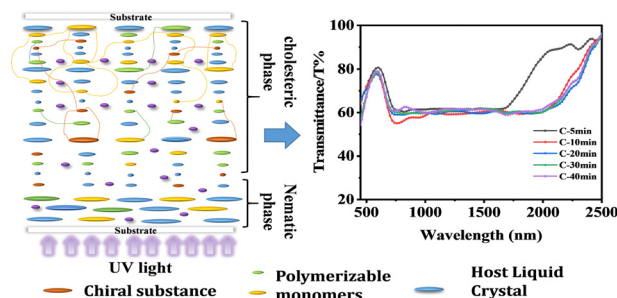
Kseniia Boidachenko, Michal Liberka, Junhao Wang, Hiroko Tokoro, Shin-ichi Ohkoshi and Szymon Chorazy*



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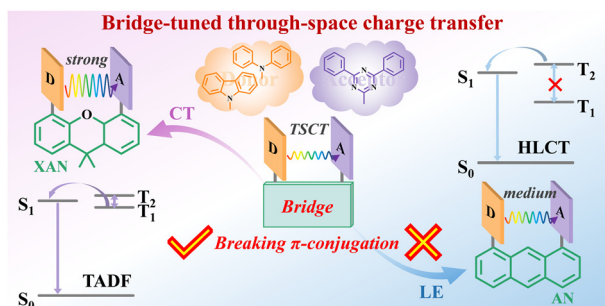
Preparation and properties of broadband reflective cholesteric-phase liquid crystal films based on chiral and achiral bilayer structures

Yazhen Xu, Wanli He,* Xiaolong Sheng, Zhou Yang, Hui Cao and Dong Wang



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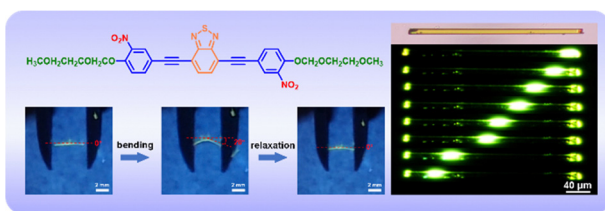
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Bridge-tuned through-space charge transfer for TADF and HLCT emissions

Tian Tian, Jiaqi Li, Dongxue Guo and Houyu Zhang*

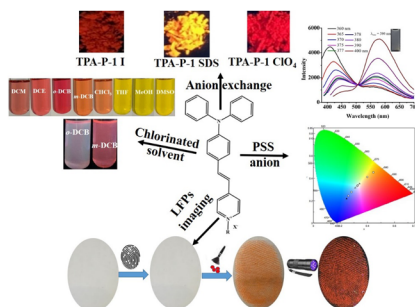
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Coordination of hydrogen-bonding and π - π stacking induced elasticity and efficient optical-waveguiding in 4,7-bis(phenyl ethynyl)benzo[c][1,2,5] thiadiazole-based crystals

Geng Li, Yan Xia, Kunpeng Guo, Jie Li,* Yongli Yan,* Yoshimitsu Sagara and Yongzhen Yang*

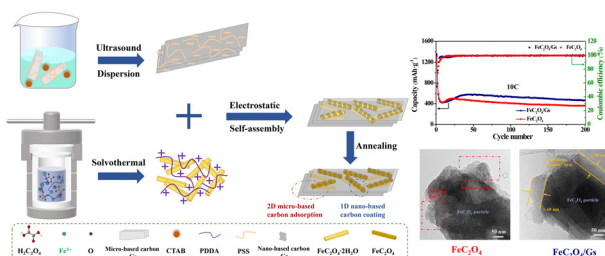
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Red-emitting ionic fluorophores: anion-dependent tunable fluorescence, chlorinated solvent sensing, white light emission and latent fingerprinting

Sasikala Ravi, Subramanian Karthikeyan, Anuradha Mohitkar, Subbalakshmi Jayanty, Mehboobali Pannipara, Abdullah G. Al-Sehemi, Dohyun Moon* and Savarimuthu Philip Anthony*

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Achieving super lithium storage of FeC₂O₄/Gs composites with dual-level structured graphene sheets through electrostatic adherence

Zengmou Li, Qing Zhao, Keyu Zhang,* Dingfang Cui, Keqi Chen, Yusheng Gong, Shaoze Zhang, Yin Li, Junxian Hu, Bin Yang and Yaochun Yao*

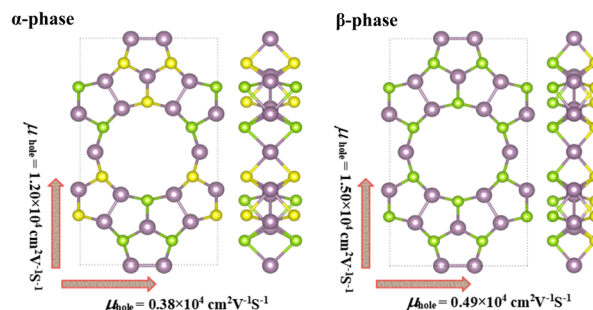


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Prediction of high carrier mobility for novel Janus $\text{Mo}_8\text{S}_6\text{Se}_6$ monolayers with different phases: first principles calculations

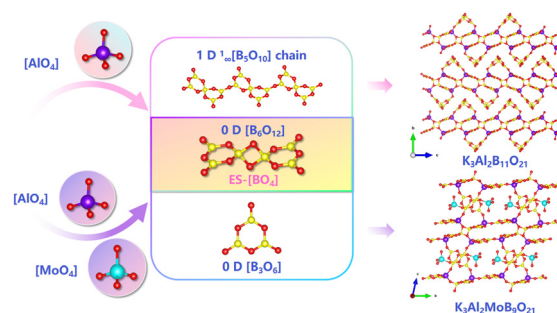
Yi Peng, Xuli Li, Xinyi Tang, Ju Jiao, Qianqian Zhu* and Juexian Cao*



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“One stone two birds” design of borates featuring edge-sharing $[\text{BO}_4]$ and different B–O configurations in one structure utilizing covalent tetrahedra

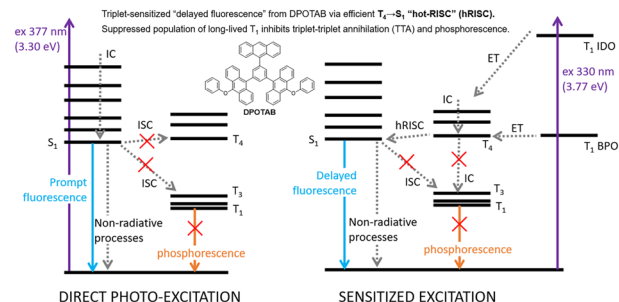
Haoran Wang, Jiahao Jiao, Abudukadi Tudi, Shilie Pan* and Min Zhang*



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Reverse intersystem crossing from high-level triplet excited electronic states of fluorescent organic molecules

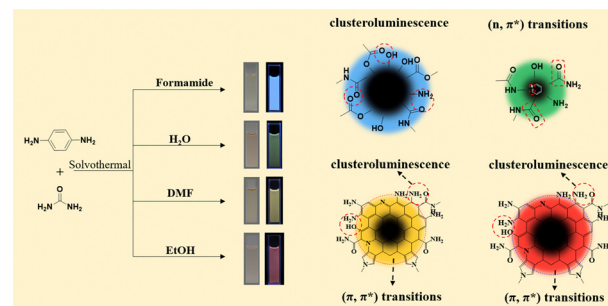
Qianqian Xu,* Andrew D. Scully, Melissa A. Skidmore, Hua Ke,* Xiaojun Wu, Jie Li, Zhicheng Zhang, Xiaochang Li and Kazunori Ueno*



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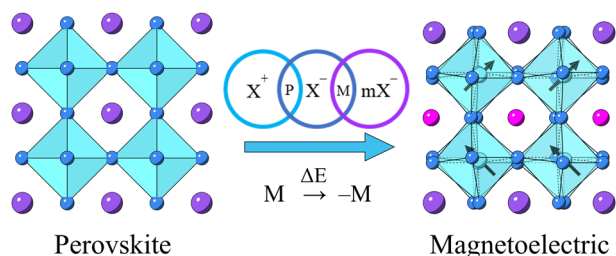
Solvent-regulated multicolor-emissive carbon dots and their application in multicolor light-emitting diodes

Yaling Wang, Genhong Huang, Zishan Yan, Guangqun Cao, Wenjing Zheng, Shengliang Hu, Bin Liu* and Yongzhen Yang*



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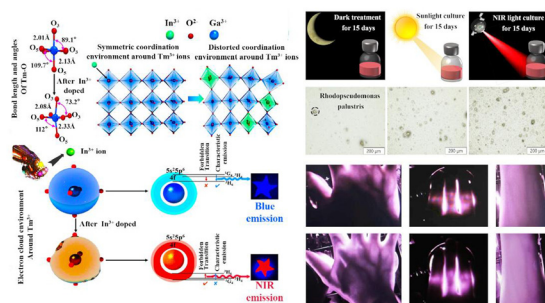
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Symmetry-informed design of magnetoelectric coupling in the manganite perovskite $\text{CeBaMn}_2\text{O}_6$

Struan Simpson, Cameron A. M. Scott, Fernando Pomiro, Jeremiah P. Tidey, Urmimala Dey, Fabio Orlandi, Pascal Manuel, Martin R. Lees, Zih-Mei Hong, Wei-tin Chen, Nicholas C. Bristowe and Mark S. Senn*

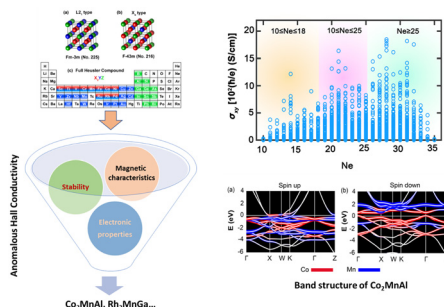
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Unlocking non-characteristic near-infrared emission of rare earth ions for photosynthetic bacteria cultivation and vein imaging applications

He Lin, Shuangqiang Fang,* Tianchun Lang, Jiali Yu, Haoliang Cheng, Jiaqi Ou, Zhijie Ye, Renjie Xu, Xiulan Shui, Haolin Qu and Le Wang*

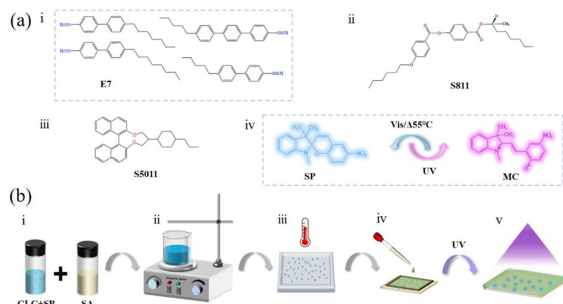
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Orbital-engineered anomalous Hall conductivity in stable full Heusler compounds: a pathway to optimized spintronics

Quynh Anh T. Nguyen, Thi H. Ho, Seong-Gon Kim, Ashwani Kumar and Viet Q. Bui*

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A multidimensional anti-counterfeiting dynamic flexible label based on light/thermal responsive CLC microspheres

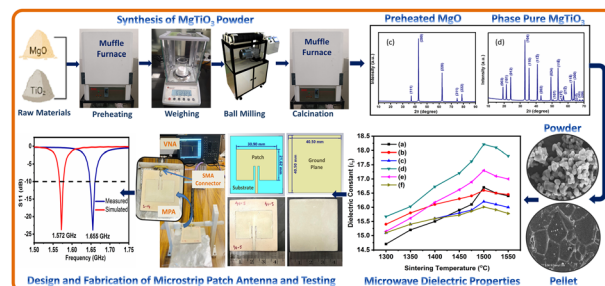
Qingxiu Wang, Dong Zhou, Kai Gong, Xinpeng Lv, Peng Li* and Yongjun Liu*



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Preparation of phase-pure MgTiO_3 microwave dielectric ceramics for GPS antenna application

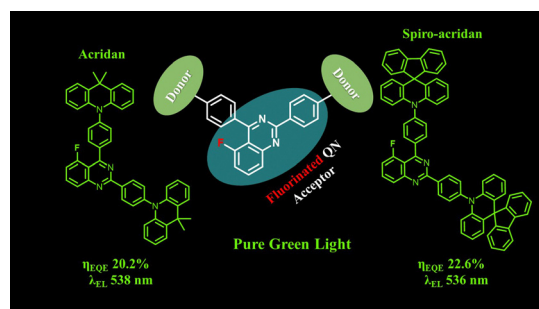
Dhananjay Mali, Naveenraj Rajaram, Ruchita Vehale, Manish Shinde,* Govind Umarji and Sunit Rane*



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Modification of thermally activated delayed fluorescence emitters comprising fluorinated acridan–quinazoline and spiroacridan–quinazoline moieties for efficient green OLEDs

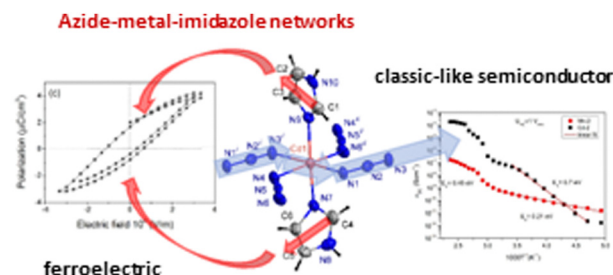
Fu-En Szu, Shao-An Chen, Yin-Yin Yu, Jiun-Haw Lee,* Tien-Lung Chiu* and Man-kit Leung*



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The influence of azide and imidazole on the properties of Mn- and Cd-based networks: conductivity and nonlinear phenomena

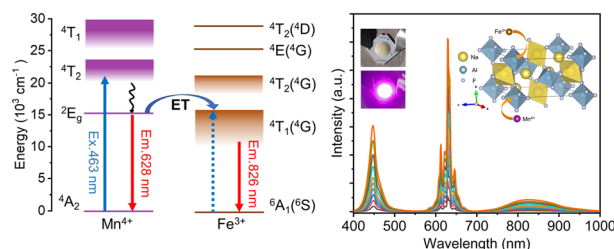
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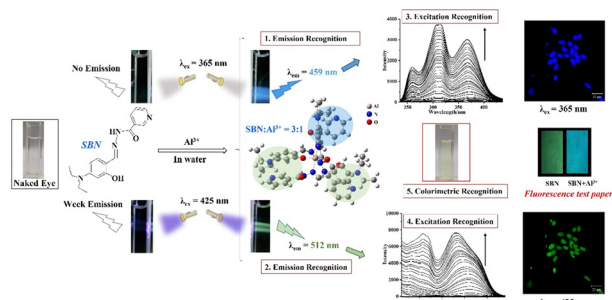
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Energy transfer-induced blue light-excited broadband near-infrared luminescence in fluoride $\text{Na}_3\text{AlF}_6:\text{Mn}^{4+}, \text{Fe}^{3+}$

F. Q. He, E. H. Song* and Q. Y. Zhang*



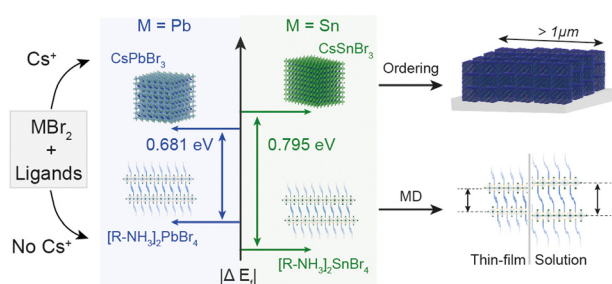
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An ultra-sensitive fluorescence multi-channel and colorimetric probe based on salicylaldehyde hydrazone for Al^{3+} recognition with a 3:1 binding ratio

Zhongyan Zhang, Sha Wang, Muxi Wang, Hongming Li, Qingjian Liang, Jiawei Tang, Jian Sun,* Li-Jun Ma* and Hong Liu

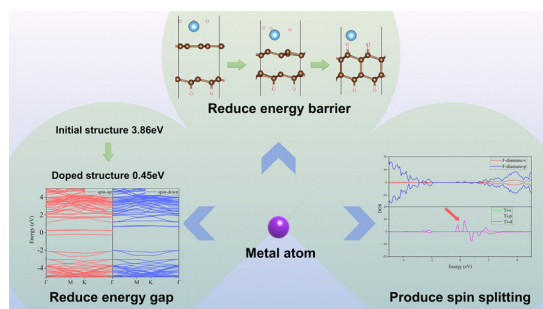
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Growth mechanism of oleylammonium-based tin and lead bromide perovskite nanostructures

Kushagra Gahlot, Julia N. Kraft, Manuel Pérez-Escribano, Razieh M. Koushki, Majid Ahmadi, Enrique Orti, Bart J. Kooi, Giuseppe Portale, Joaquín Calbo and Loredana Protesescu*

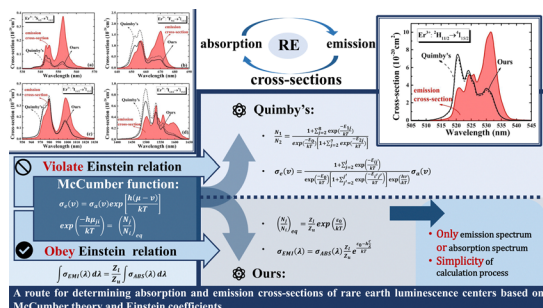
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Electronic structures of diamane doped with metal atoms

Shiyang Fu, Qiyuan Yu, Junsong Liu, Nan Gao* and Hongdong Li*

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A route for determining absorption and emission cross-sections of rare-earth luminescence centers based on McCumber theory and Einstein coefficients

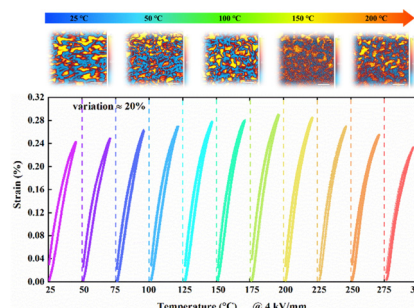
Xuezhu Sha, Xin Chen, Duan Gao, Li Wang, Yanqiu Zhang, Xizhen Zhang, Jinsu Zhang, Sai Xu, Yongze Cao, Yichao Wang, Xiangping Li, Hongquan Yu, Baojiu Chen* and Wei Chen*



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Temperature-insensitive high piezoelectricity in a $(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3\text{--PbTiO}_3\text{--PbZrO}_3$ ternary system

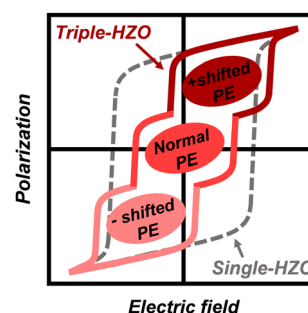
Shengjie Yan, Siyun Di, Mingyu Yang, Yueyun Zhang,*
Zheng Sun and Hui Liu*



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A six-level ferroelectric storage cell based on a bidirectional imprint field

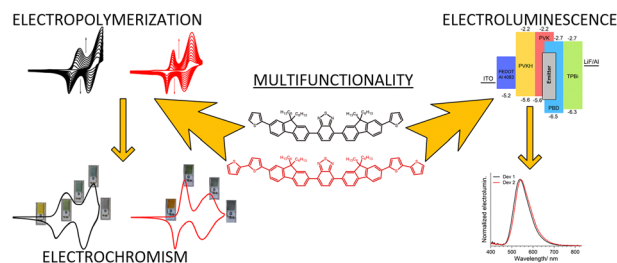
Chaeheon Kim, Junghyeon Hwang, Hunbeom Shin,
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The impact of structural modification on the electrochromic and electroluminescent properties of D–A–D benzothiadiazole derivatives with a fluorene linker and (Bi)thiophene units

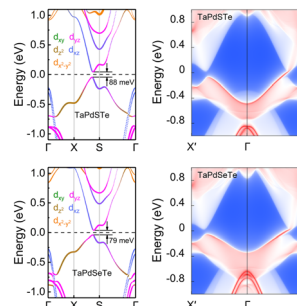
Roman Ganczarczyk, Renata Rybakiewicz-Sekita,
Magdalena Zawadzka, Piotr Pander, Przemysław Ledwon,
Dawid Nastula and Sandra Pluczyk-Matek*



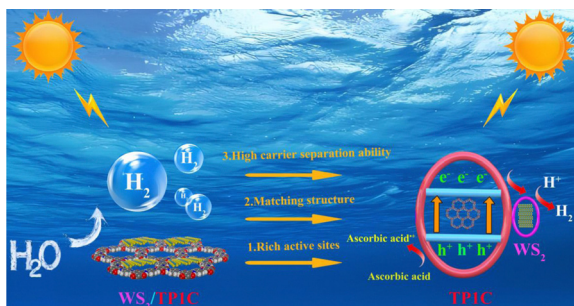
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The intrinsic quantum anomalous Hall effect in TaPdXTe ($X = \text{S, Se}$) monolayers

Haofeng Wei, Yanzhao Wu, Junwei Tong, Li Deng,
Xiang Yin, Zhijun Zhang and Xianmin Zhang*



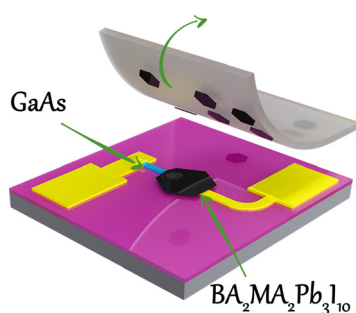
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Rational design of dimensionally matched 2D/2D COF based photocatalysts for highly efficient noble-metal-free solar energy catalysis

Haijun Hu, Xiaodong Sun,* Hui Li, Hongwei Huang and Tianyi Ma*

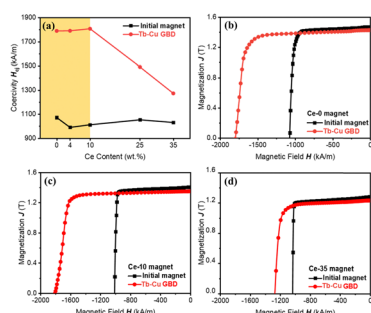
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Van der Waals integration of phase-pure 2D perovskite sheets and GaAs nanowires for self-driven photodetector

Zhi-Hong Zhang, Xiao-Bing Hou, Shang-Heng Li, Zhi-Peng Wei,* Jin-Chao Wei, Peng Li and Shuang-Peng Wang*

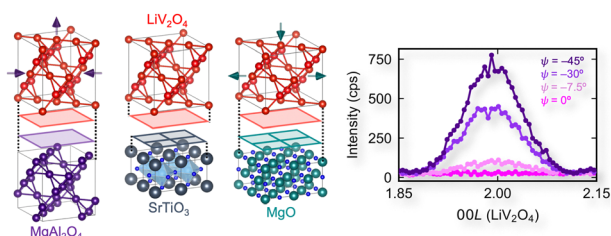
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Correlation between Ce content and Tb–Cu grain boundary diffusion efficiency in Ce-containing Nd–Fe–B magnets

Zhigao Yu, Shiyong Chen, Chaochao Zeng, Hongya Yu, Yaxiang Wu, Jiayi He* and Zhongwu Liu*

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Heteroepitaxial tuning of resonant forbidden reflections in a spinel

Ryosuke Oka, Minu Kim, Peter Wochner, Sonia Francoual, Thomas T. M. Palstra, Hidenori Takagi and Dennis Huang*



CORRECTION

15257

Correction: Heteroepitaxial tuning of resonant forbidden reflections in a spinel

Ryosuke Oka, Minu Kim, Peter Wochner, Sonia Francoual, Thomas T. M. Palstra, Hidenori Takagi and Dennis Huang*

