

Journal of Materials Chemistry C

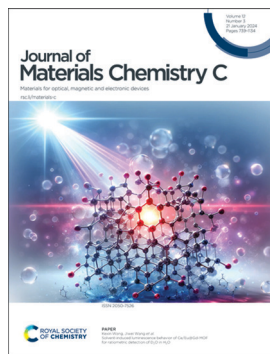
Materials for optical, magnetic and electronic devices

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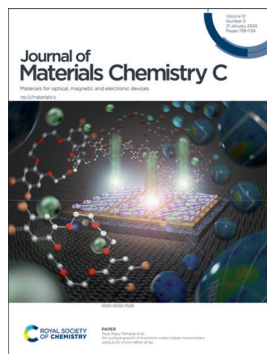
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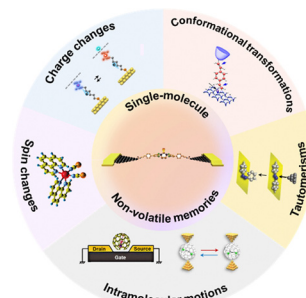
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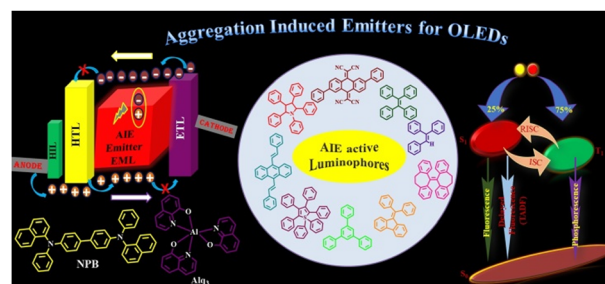
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REVIEWS

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Additive-assisted strategy for high-efficiency organic solar cells

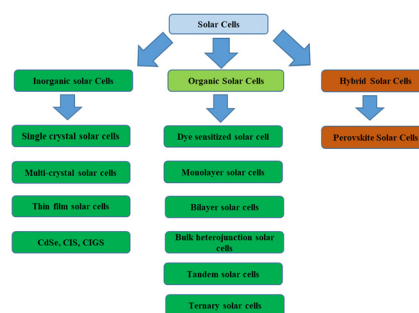
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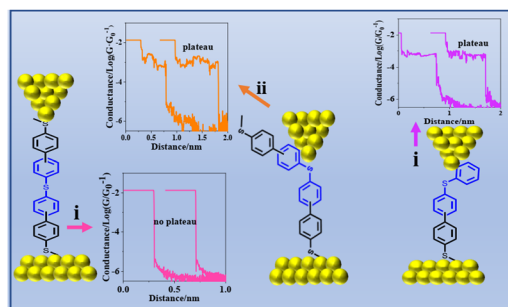


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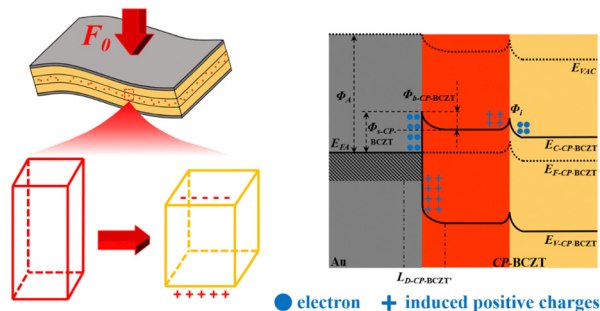
Zhonghao Hu, Yanze Wang, Lei Liang, Mingzhen Wang, Bohuai Xiao* and Yunchuan Li*



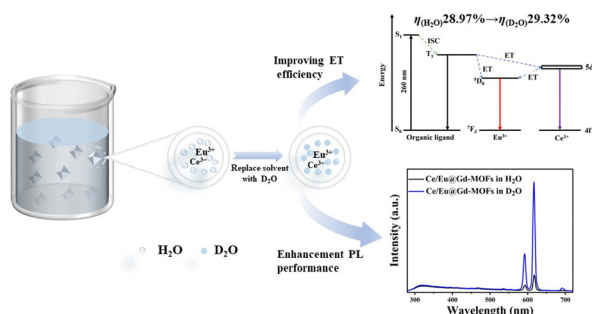
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Achieving low energy consuming bio-based piezoelectric nanogenerators via modulating the inner layer thickness for a highly sensitive pedometer

Zixiong Sun,* Siting Wang, Shibo Zhao, Hansong Wei, Guodong Shen,* Yongping Pu and Sufeng Zhang*



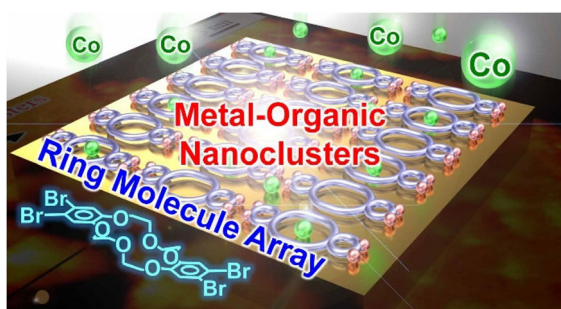
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Xiaoxuan Fan, Zhiqiang Guo, Xiaokun Wen, Wen Liu, Baijie Guan, Feifei Yin, Xia Hong, Tianya Tan, Kexin Wang* and Jiwei Wang*

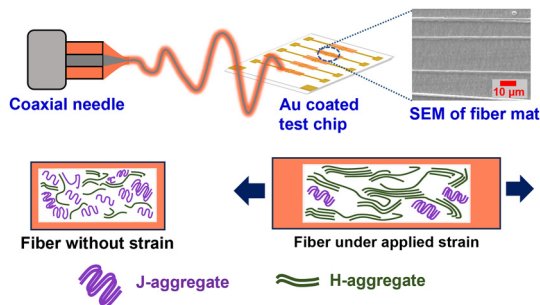
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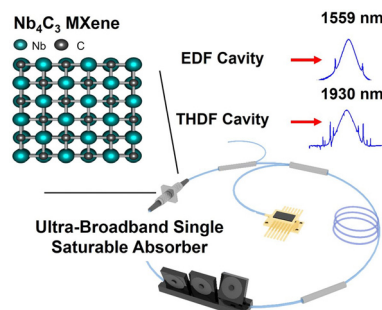
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Third-order optical nonlinearities of Nb₄C₃ MXene and its application as an ultra-broadband mode-locker

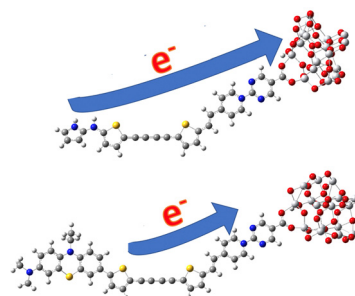
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Charge transfer properties of novel linear carbon chain-based dyes

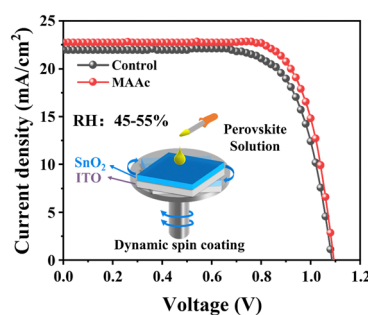
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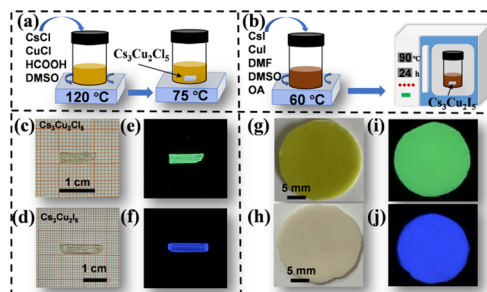
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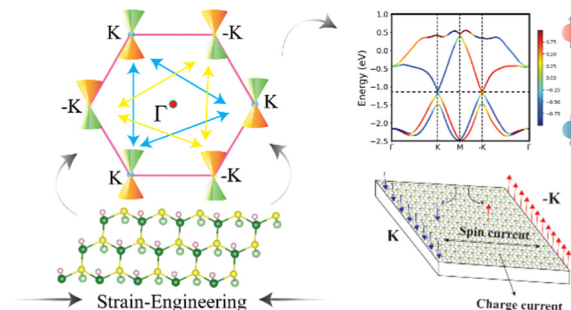
Xiangshi Bin, Jiaying Liu, Ruosheng Zeng, Hongbang Liu,* Jialong Zhao* and Tao Lin*



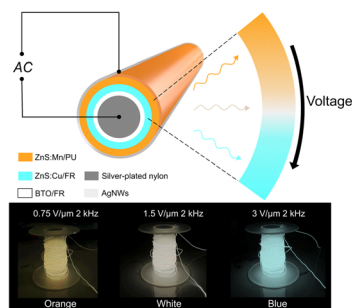
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Bhautik R. Dhori, Prafulla K. Jha* and Brahmananda Chakraborty



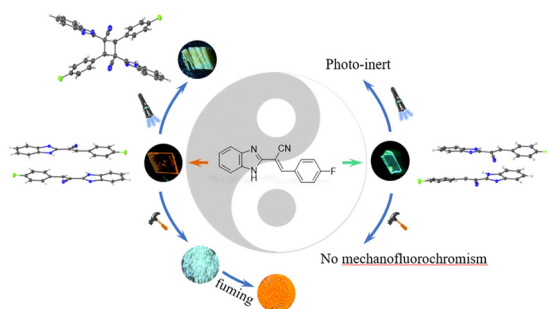
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Color-tunable light-emitting fibers for pattern displaying textiles

Peiyu Liu, Yang Xiang, Yue Liu, Sunny Shulei Peng, Zhengfeng Zhu, Xiang Shi, Jingxia Wu* and Peining Chen*

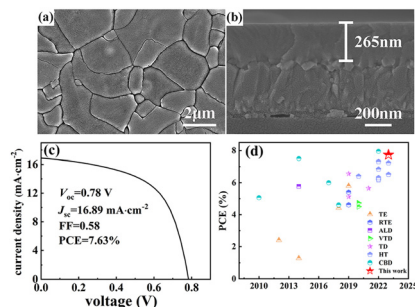
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Polymorphism manipulating topo-photochemical reactions, photoactuation, and the mechanofluorochromism of benzimidazolelaryl acrylonitriles

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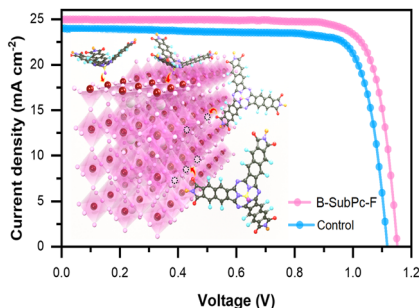
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Chemical bath deposition of Sb_2S_3 thin films using the mixing solution of SbCl_3 and sodium citrate as a novel Sb source for assembling efficient solar cells

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Boron subnaphthalocyanine additive for multilocus passivation of defects towards efficient and stable perovskite solar cells

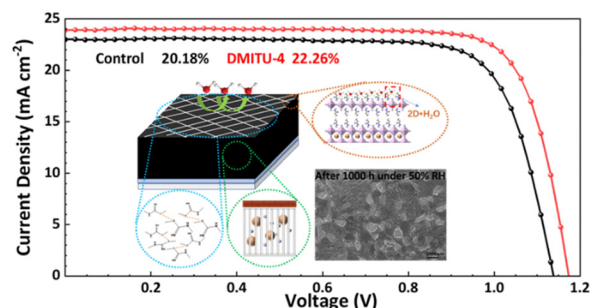
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Surface pre-sacrifice behavior of thiourea-based 2D perovskites for high-performance perovskite solar cells

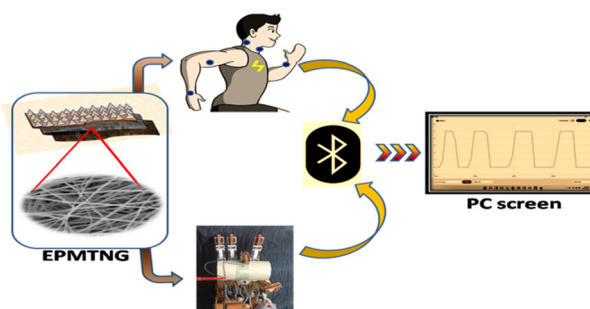
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Micro-patterned BaTiO₃@Ecoflex nanocomposite-assisted self-powered and wearable triboelectric nanogenerator with improved charge retention by 2D MoTe₂/PVDF nanofibrous layer

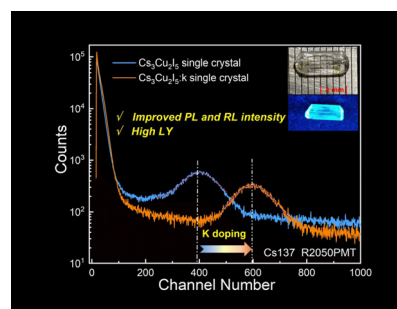
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Potassium-regulated lead-free cesium copper iodide Cs₃Cu₂I₅ perovskites with enhanced scintillation properties and their application in high-resolution X-ray imaging

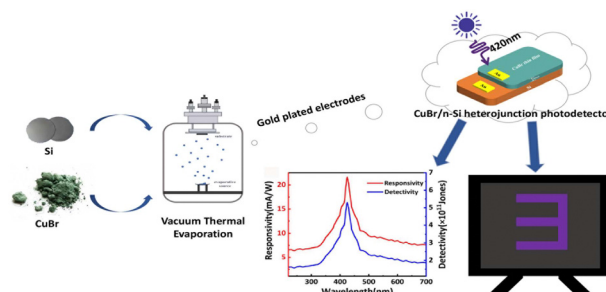
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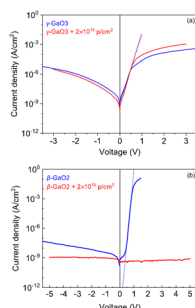
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A self-powered p-CuBr/n-Si heterojunction photodetector based on vacuum thermally evaporated high-quality CuBr films

Bin Xia, Lichun Zhang,* Dan Tian, Shunli He, Ning Cao, Guanying Xie, Dengying Zhang, Xinbo Chu* and Fengzhou Zhao*



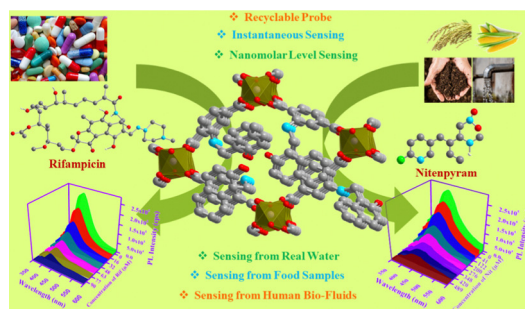
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Proton damage effects in double polymorph γ/β -Ga₂O₃ diodes

Alexander Y. Polyakov, Anton A. Vasilev, Anastasiia I. Kochkova, Ivan V. Shchemerov, Eugene B. Yakimov, Andrej V. Miakonkikh, Alexei V. Chernykh, Petr B. Lagov, Yrii S. Pavlov, A. S. Doroshkevich, R. Sh. Isaev, Andrei A. Romanov, Luiza A. Alexanyan, Nikolai Matros, Alexander Azarov, Andrej Kuznetsov* and Stephen Pearton*

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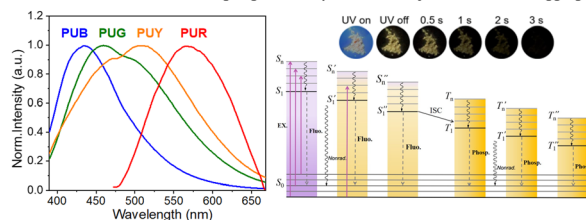


Design of functionalized luminescent MOF sensor for the precise monitoring of tuberculosis drug and neonicotinoid pesticide from human body-fluids and food samples to protect health and environment

Abhijeet Rana, Nazir Ud Din Mir, Arpa Banik, Ananya Hazra and Shyam Biswas*

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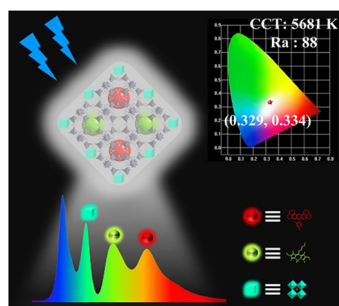
Multicolor Emission and Ultralong Organic Phosphorescence by Cluster-induced Aggregation



Cluster-induced aggregation in polyurethane derivatives with multicolour emission and ultra-long organic room temperature phosphorescence

Nan Jiang, Ke-Xin Li, Jia-Jun Wang, Chen-Sen Li, Xiao-Yu Xu, Yan-Hong Xu* and Martin R. Bryce*

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Multi-luminescent center integrated metal-organic frameworks for high-performance white light-emitting diodes

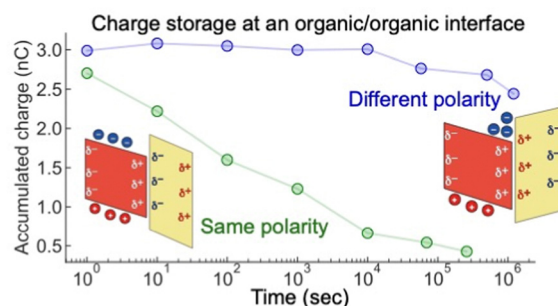
Hailong Wu, Ying Tang, Yuanjing Cui* and Guodong Qian*



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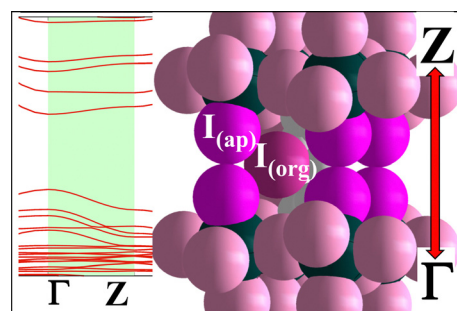
Takahiko Yamanaka, Hajime Nakanotani* and Chihaya Adachi*



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Quasi 3D electronic structures of Dion–Jacobson layered perovskites with exceptional short interlayer distances

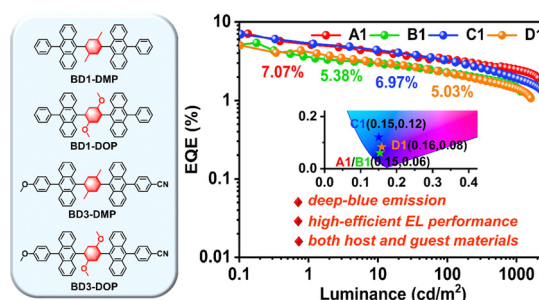
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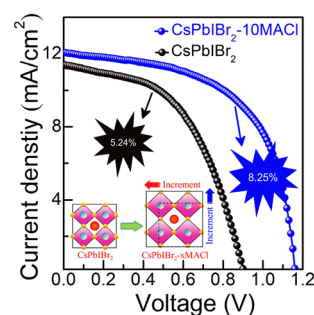
Pengcheng Jin, Xilin Yang, Ben Yang,* Xiao-Tian Wang, Wen-Tao Su, Shu-Hang Zhan, Xiliang Chen, Huaming Sun, Shi-Jian Su* and Jian-Yong Hu*



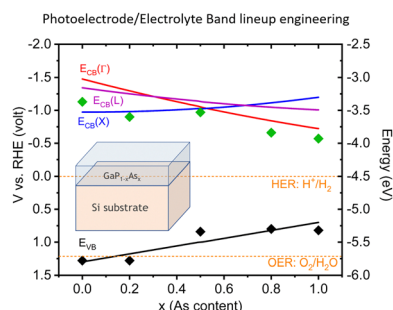
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Low-temperature processed additive-incorporated CsPbIBr₂-based inverted perovskite solar cells

Tuhin Ghosh and Debabrata Pradhan*



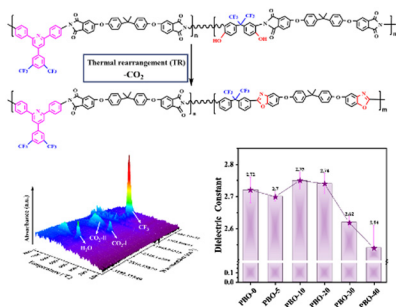
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Photoelectrode/electrolyte interfacial band lineup engineering with alloyed III–V thin films grown on Si substrates

Mekan Piriye, Gabriel Loget, Yoan Léger, Hanh Vi Le, Lipin Chen, Antoine Létoublon, Tony Rohel, Christophe Levallois, Julie Le Pouliquen, Bruno Fabre, Nicolas Bertru* and Charles Cornet*

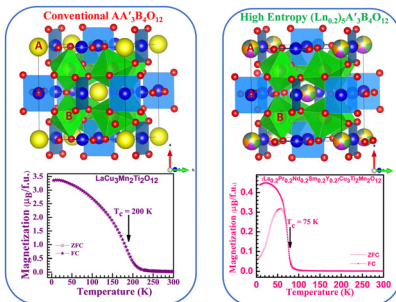
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Preparation of fluorinated poly(benzoxazole-co-imide) with low dielectric constants based on the thermal rearrangement reaction of o-hydroxy polyimides

Hong Li, Xiyan Li, Jiali Yu, Yadong Li, Zhigang Wang, Feng Bao,* Caizhen Zhu* and Jian Xu

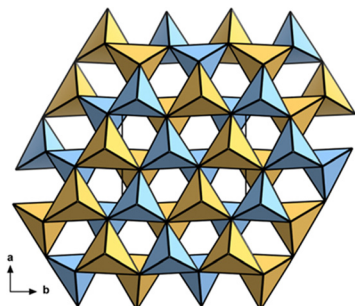
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A remarkable high entropy effect on the magnetic behaviour of quadruple perovskites

Radhamadhab Das, Shreyashi Chowdhury, K. K. Supin, M. Vasundhara,* Arup Gayen and Md. Motin Seikh*

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Uncovering cation disorder in ternary $\text{Zn}_{1+x}\text{Ge}_{1-x}(\text{N}_{1-x}\text{O}_x)_2$ and its effect on the optoelectronic properties

Zhenyu Wang, Daniel M. Többs, Alexandra Franz, Stanislav Savvin, Joachim Breternitz* and Susan Schorr*

