

# CrystEngComm

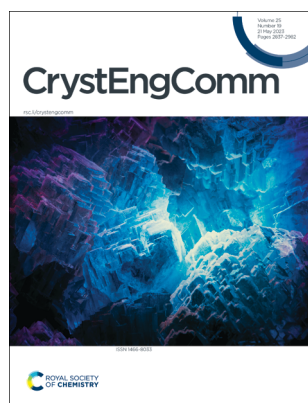
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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ISSN 1466-8033 CODEN CRECF4 25(19) 2837-2982 (2023)



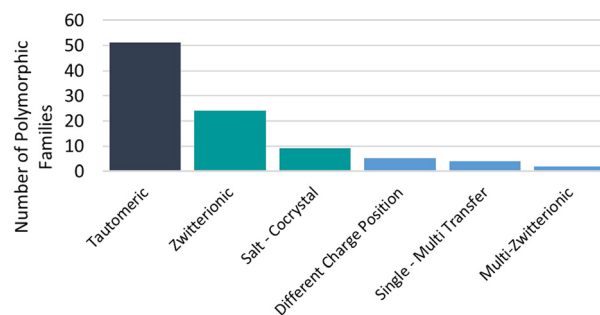
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### A to Z of polymorphs related by proton transfer

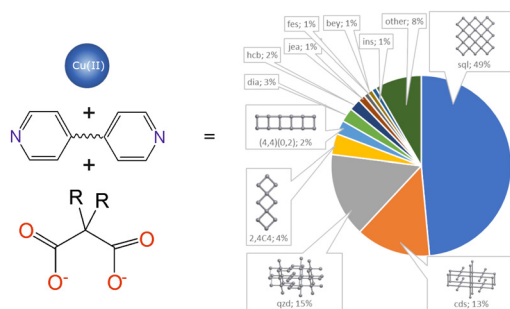
Amy Woods-Ryan, Cheryl L. Doherty  
and Aurora J. Cruz-Cabeza\*



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### Design and synthesis of copper(II) malonates with N, N'-containing linkers

Ekaterina N. Zorina-Tikhonova, Aleksandr S. Chistyakov,  
Veronika A. Novikova, Daniil A. Knyazev,  
Natalia V. Gogoleva, Daniil O. Blinou, Nikolay N. Efimov,  
Pavel V. Dorovatovskii, Mikhail A. Kiskin,  
Igor L. Eremenko and Anna V. Vologzhanina\*



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# CrystEngComm

A journal at the forefront of the design and understanding of solid-state and crystalline materials

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*CrystEngComm* is the forum for the design and understanding of crystalline materials. We welcome studies on the investigation of molecular behaviour within crystals, control of nucleation and crystal growth, engineering of crystal structures, and construction of crystalline materials with tuneable properties and functions.

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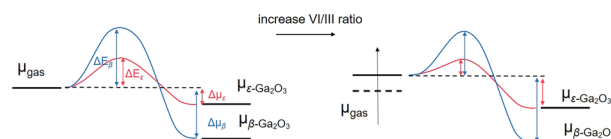
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### Metal–organic chemical vapor deposition of $\epsilon$ -Ga<sub>2</sub>O<sub>3</sub> thin film using N<sub>2</sub>O as a precursor

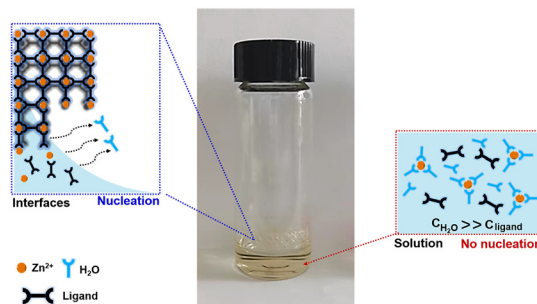
Shujian Chen, Zimin Chen,\* Wei-qu Chen, Zeyuan Fei, Tiecheng Luo, Jun Liang, Xinzhong Wang, Gang Wang and Yanli Pei\*



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### Preparation of large-size single-crystal metal–organic frameworks *via* the Marangoni effect

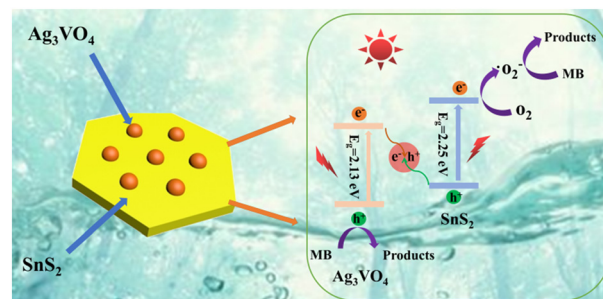
Fuqiang Fan,\* Zhihui Zhang, Jin Guo, Liying Zhang, Xuemin Zhang, Tieqiang Wang and Yu Fu\*



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### Facile fabrication of a SnS<sub>2</sub>/Ag<sub>3</sub>VO<sub>4</sub> Z-scheme heterojunction for boosting visible-light photocatalytic activity

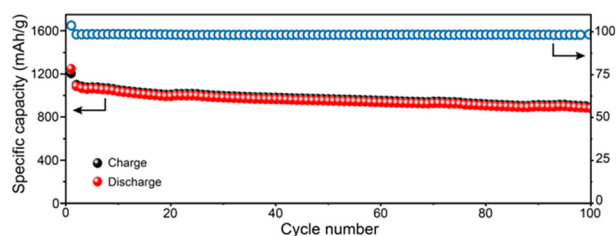
Qiang Li,\* Shiwu He, Lijie Wang, Jupu Song, Jiapeng Wang, Chunfeng Shao, Zhenfei Tian and Yi Liu\*

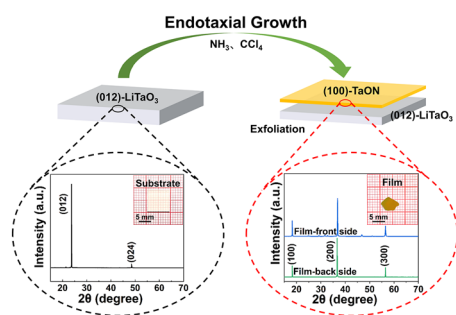


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### 3D pill-structured Ti-MOF@S composite cathodes for high-performance Li–S batteries

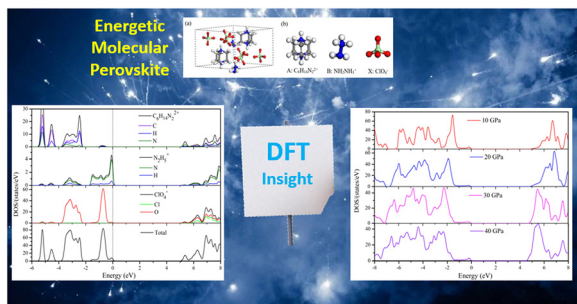
Chengyao Zhu, Jin Wang, Guiying Xu, Xuan Du, Chuxin Chen, Xiangwei Yang, Chongjun Bao and Guo Gao\*





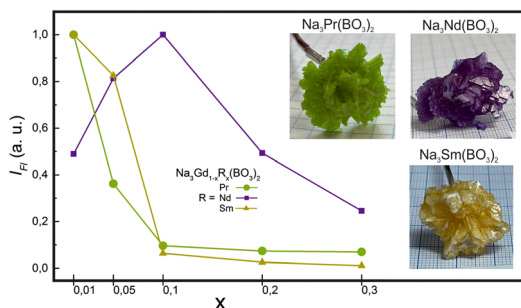
### Growth mechanism of [100]-oriented TaON film through an endotaxial transformation from a (012)-LiTaO<sub>3</sub> single crystal substrate

Xuesen Qin, Huiliang Li, Zeyan Wang,\* Zhaoke Zheng, Peng Wang, Hefeng Cheng, Yuanyuan Liu, Yuchen Fan, Ying Dai and Baibiao Huang\*



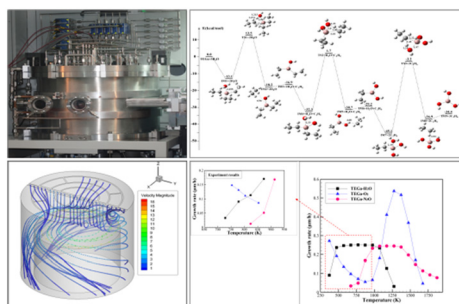
### Effects of hydrostatic pressure on structural, mechanical, and electronic properties of energetic molecular perovskite (C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>)(NH<sub>2</sub>NH<sub>3</sub>)(ClO<sub>4</sub>)<sub>3</sub>: a DFT-D insight

Qiaoli Li, Shenshen Li and Jijun Xiao\*



### Growth and characterization of Na<sub>3</sub>R(BO<sub>3</sub>)<sub>2</sub> (R = La-Gd) borates: crystal structure, high-temperature behavior, and optical properties

Artem B. Kuznetsov,\* Ammar Y. Jamous, Valery A. Svetlichnyi, Sergey N. Volkov, Ilya V. Korolkov, Konstantin A. Kokh, Liudmila A. Gorelova, Maria G. Krzhizhanovskaya, Sergey M. Aksenov and Alexander E. Kokh



### Quantum chemical calculation and growth process of Ga<sub>2</sub>O<sub>3</sub> grown *via* TEGa under different oxygen sources in MOCVD

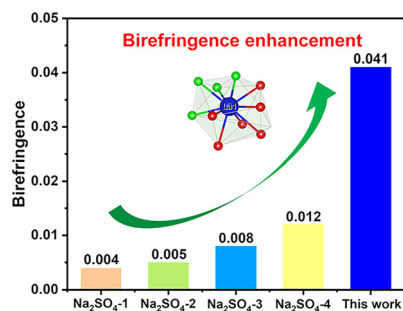
Jie Wang, Tie-cheng Luo, Zhuo Yang, Yi-cong He, Jian Li and Gang Wang\*



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## Enhancing birefringence of non- $\pi$ -conjugated sulfate systems through rare-earth metal-centered polyhedra

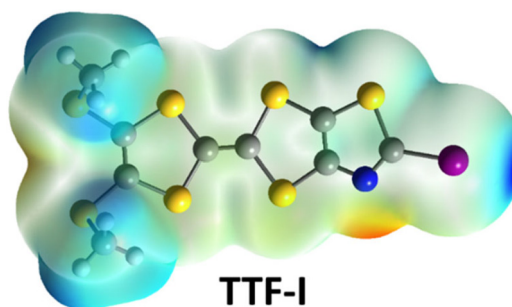
Jingdong Yan, Dongdong Chu, Fangfang Zhang,\*  
Zhihua Yang, Shilie Pan and Xueling Hou\*



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## Non-covalent interactions in neutral and oxidized tetrathiafulvalenes

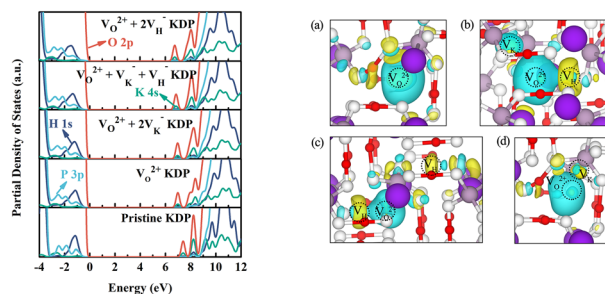
Haia Kharraz, Hadi Hachem, Yann Le Gal, Thierry Roisnel,  
Olivier Jeannin, Frédéric Barrière, Thierry Guizouarn  
and Dominique Lorcy\*



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## Structural and electronic properties and optical absorption of oxygen vacancy cluster defects in KDP crystals: hybrid density functional theory investigation

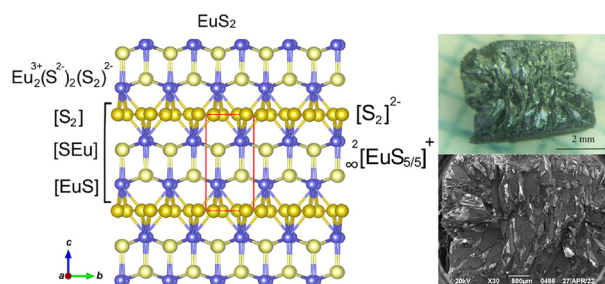
Yang Li, Guokai Hao, Jianyu Bai, Tingting Sui,  
Liening Wei, Xun Sun, Xian Zhao, Mingxia Xu  
and Baoan Liu\*



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## Structural, optical and transport properties of layered europium disulfide synthesized under high pressure

E. A. Ekimov, S. N. Nikolaev, A. G. Ivanova, V. A. Sidorov,  
A. A. Shiryaev, I. I. Usmanov, A. L. Vasiliev, V. V. Artemov,  
M. V. Kondrin,\* M. A. Chernopitskiy and V. S. Krivobok



## CORRECTION

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**Correction: High-pressure and low-temperature structural study of claudetite I, a monoclinic layered As<sub>2</sub>O<sub>3</sub> polymorph**

Piotr A. Guńka,\* Michael Hanfland, Yu-Sheng Chen and Janusz Zachara

