

# CrystEngComm

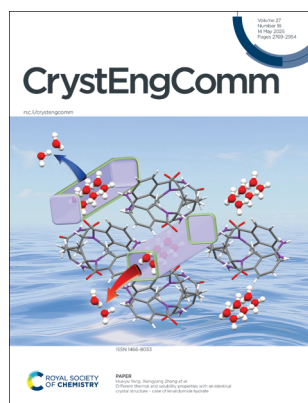
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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## IN THIS ISSUE

ISSN 1466-8033 CODEN CRECF4 27(18) 2769-2954 (2025)



**Cover**  
See Huaiyu Yang, Xiangyang Zhang *et al.*, pp. 2815-2823.  
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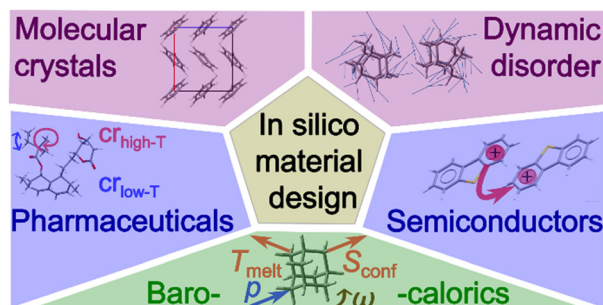
**Inside cover**  
See Ryo Tsunashima *et al.*, pp. 2824-2829.  
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## HIGHLIGHTS

2778

**Computational insights on dynamic disorder in molecular crystals – from electron structure over phonons to thermodynamics**

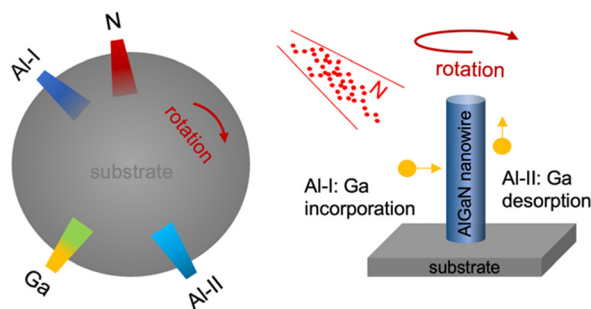
Ctirad Červinka



2795

**Molecular beam epitaxy of AlGaN nanowires: source configuration and correlated material properties and device characteristics**

Songrui Zhao\*



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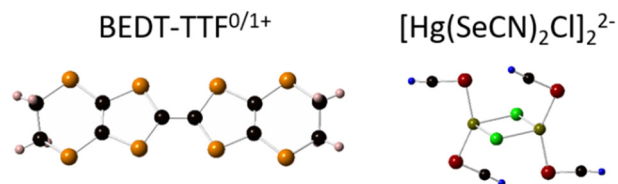


## COMMUNICATIONS

2805

**One-dimensional antiferromagnetic chain in the cation radical salt  $\alpha$ -(BEDT-TTF) $_2$ Hg(SeCN) $_2$ Cl**

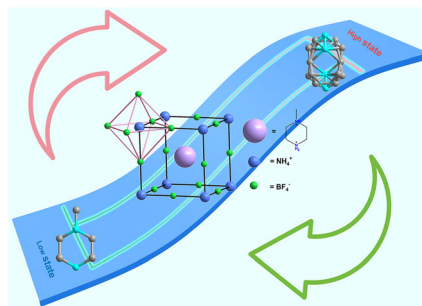
A. Henderson, A. Razpopov, S. Biswas, R. Valentí, H. Cui, R. Kato, K. Wei, J. van Tol, T. Siegrist\* and J. A. Schlueter\*



2810

**Three-dimensional metal-free perovskite with switchable dielectric behaviors**

Feng-Wen Zhang, Yu-Lan Xie, Pei-Guo Liu, Meng-Qiang Li, Yi-Xuan Yang, Hao-Fei Ni, Gele Teri, Ming Zhu, Chang-Feng Wang,\* Yi Zhang\* and Da-Wei Fu\*

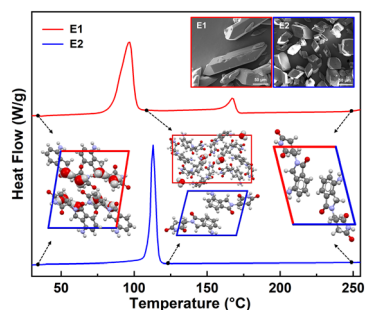


## PAPERS

2815

**Different thermal and solubility properties with an identical crystal structure – case of lenalidomide hydrate**

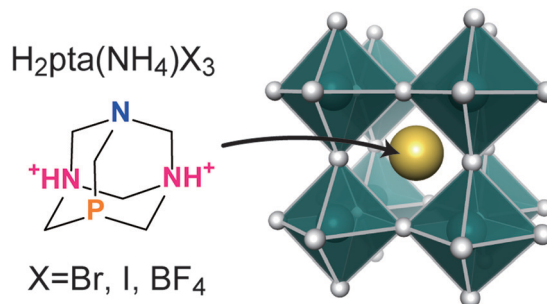
Qi Zhang, Yitong Zhu, Yisheng Xu, Huaiyu Yang,\* Wei Li and Xiangyang Zhang\*



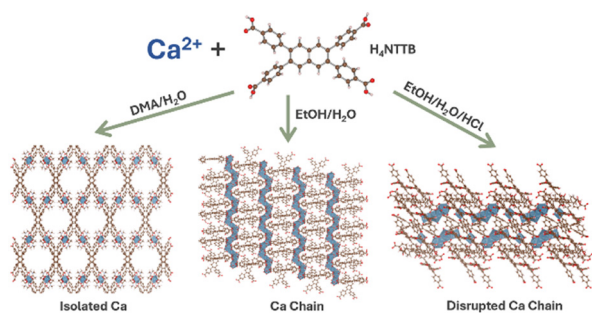
2824

**Synthesis, crystallographic study and solid-state properties of metal-free perovskites with P-atom containing A-site cations**

Yumi Matsuda, Rentaro Asai, Jumpei Moriguchi, Tomoyuki Akutagawa, Atsuko Masuya-Suzuki and Ryo Tsunashima\*



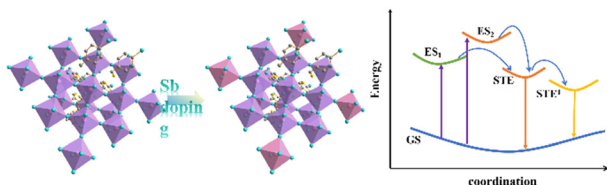
2830



### Structural variety in calcium metal–organic frameworks with a tetratopic carboxylate ligand

Baiwen Zhao, Guy J. Clarkson, Jie Liu, Thi Huong Le, Jérôme Marrot, Franck Millange, Michel Frigoli and Richard I. Walton\*

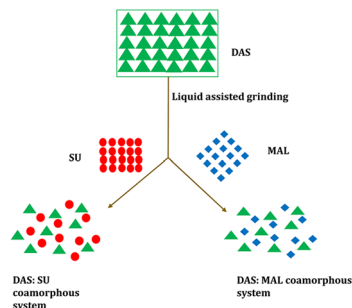
2841



### Enhancement of intrinsic luminescence by Sb<sup>3+</sup> doped (C<sub>7</sub>H<sub>9</sub>N)<sub>2</sub>CdBr<sub>6</sub> with lone pair 5s<sup>2</sup> electrons

Wanxu Zhang, Yongzhuo Zheng, Mei Liu, Wenqing Wei, Juan Wang\* and Fengwan Guo\*

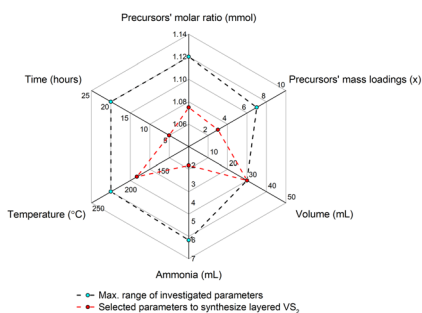
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### Preparation, characterization, and evaluation of the co-amorphous systems of dasatinib to improve its pharmaceutical attributes

Rahul B. Chavan, Shovik Ray, Pritam Kundu, Sai Adishesu Dupakuntla, Sanjeev Giri, Ponnusankar Sivasankaran,\* Gowthamarajan Kuppusamy, Sheetal Kumar Jain and Ranadeep Bokaliat\*

2858



### Systematic analysis of reaction parameters driving the hydrothermal growth of layered VS<sub>2</sub>

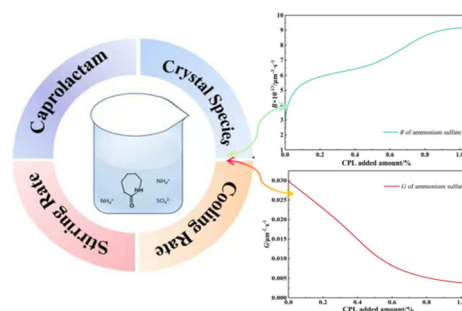
H. K. Shahzad,\* Zhengri Huang, Sasan Ghashghaie, Han Liu, G. Muhyodin, Mohsen Tamtaji, Hoi Lam Li, F. Chuan Chan and C. Y. Chung\*



2872

## A study of the influence regularity of caprolactam on the crystallisation of ammonium sulphate in aqueous solution

Meiqi Zhang, Xiang Sun, Xiaoyu Ma and Xunqiu Wang\*

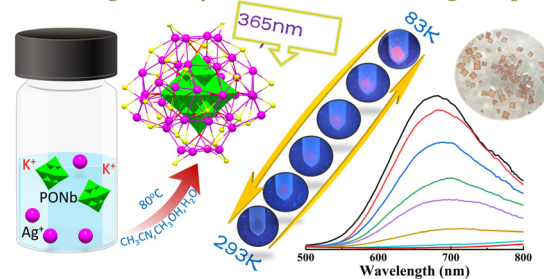


2883

## A new silver–thiolate nanocluster synthesized utilizing pure-inorganic polyoxoniobate as a starting template and its variable-temperature fluorescence properties

Li Zeng, Ya-Ting Lin, Li-Hao Hong, Yan-Qiong Sun,\* Jianping Xie, Shou-Tian Zheng and Xin-Xiong Li\*

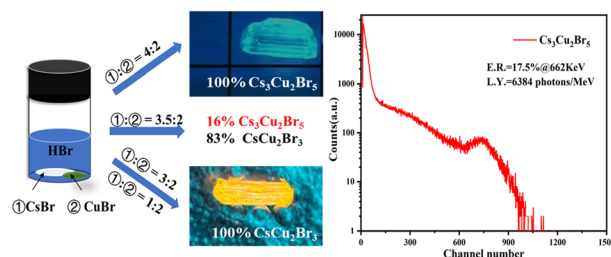
### Pure-Inorganic Polyoxoniobate as a Starting Template



2888

## The growth of $\text{Cs}_3\text{Cu}_2\text{Br}_5$ and $\text{CsCu}_2\text{Br}_3$ single crystals by cooling crystallization for scintillator application

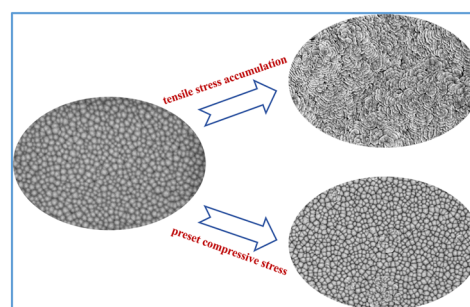
Benlan Zeng, Yongning Liu, Sirui Bao, Chencai Wang, Run Xu,\* Jinkun Liu and Yan Zhu\*



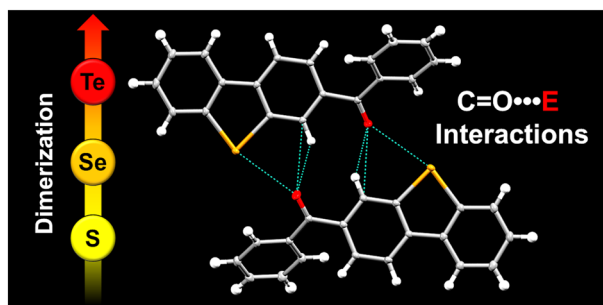
2895

## Understanding surface morphology evolution in magnetron sputtered AlN templates: mitigating tensile stress and enhancing crystal quality

Li Jiang, Jianwei Ben,\* Ke Jiang, Shanli Zhang, Tong Wu, Zikai Nie, Entao Zhang, Shunpeng Lu, Xiaojuan Sun\* and Dabing Li\*



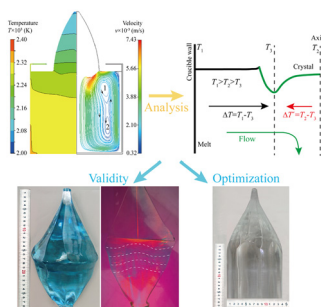
2902



### Tuning carbonyl interactions in dibenzochalcogenophenes

Lea Höfmann, Christoph Wölper, Alexander Huber, Hannah Siera, Constantin G. Daniliuc, Gebhard Haberhauer and Jens Voskuhl\*

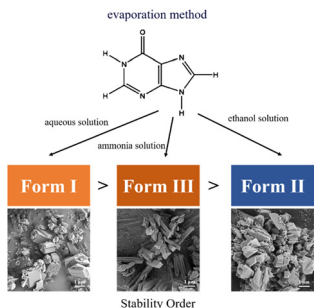
2910



### Study on the melt/crystal interface in large-size yttrium aluminum garnet crystal growth

Ruixian Wang, Qingli Zhang,\* Mingliang Yang, Yi He, Xiaofei Wang, Yu Sun and Deming Zhang

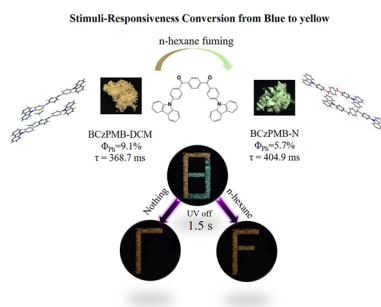
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### Three polymorphs of hypoxanthine obtained by evaporation from three distinct solvents

Haoxin Hu, Shizhao Ren, Feiting Gan, Rongrong Xue\* and Fenghua Chen\*

2931



### Crystallization-induced highly efficient phosphorescence in metal-free organic phosphors

Hui Xiao, HuiLi Ma, Jingyi Wang,\* Zhongfu An\* and Zhiyong Guo\*

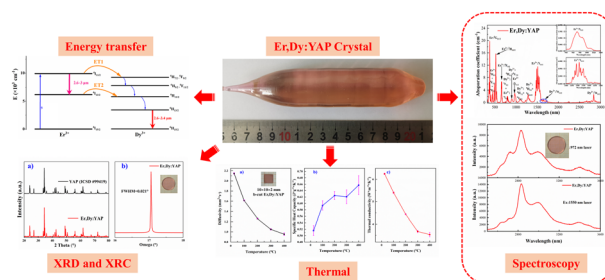


## PAPERS

2937

### Crystal structure and thermal and mid-infrared broadband luminescence characteristics of a novel Er,Dy:YAP crystal

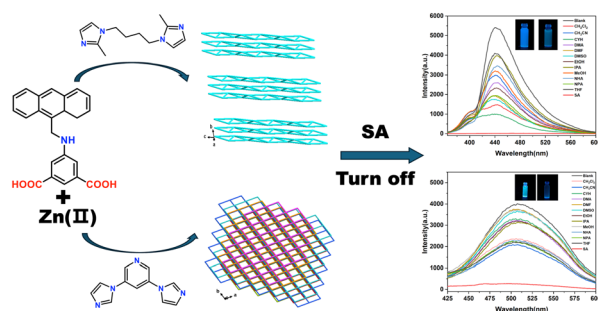
Cong Quan, Dunlu Sun,\* Huili Zhang, Jianqiao Luo, Youbao Ni, Xuezhou Yu, Kunpeng Dong, Yuwei Chen, Zhentao Wang, Hongyuan Li, Shiji Dou and Maojie Cheng



2944

### Two zinc(II)-based coordination polymers as luminescent sensors for detecting salicylaldehyde with high sensitivity and selectivity

Ruo-Tong Gang, Wen-Jing Zhang, Hai-Jun Yu, Zhen-Hui Li, Yi-Long Li, Xue-Ru Wu,\* Ming-Guang Chen,\* Shu-Man Gao and Feng Shao\*



## CORRECTION

2952

### Correction: Two zinc(II)-based coordination polymers as luminescent sensors for detecting salicylaldehyde with high sensitivity and selectivity

Ruo-Tong Gang, Wen-Jing Zhang, Hai-Jun Yu, Zhen-Hui Li, Yi-Long Li, Xue-Ru Wu,\* Ming-Guang Chen,\* Shu-Man Gao and Feng Shao\*

