

CrystEngComm

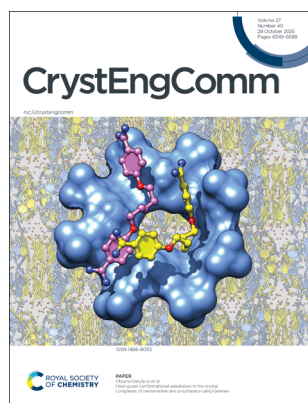
A journal at the forefront of the design and understanding of solid-state and crystalline materials

rsc.li/crystengcomm

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1466-8033 CODEN CRECF4 27(40) 6549-6688 (2025)



Cover

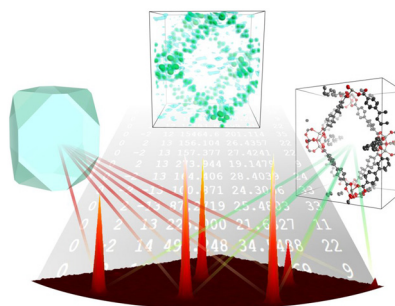
See Oksana Danylyuk *et al.*, pp. 6611-6622.
Image reproduced by permission of Oksana Danylyuk from *CrystEngComm*, 2025, 27, 6611.

TUTORIAL REVIEW

6556

Useful practices in single crystal diffraction analysis of reticular structures

Stefano Canossa*

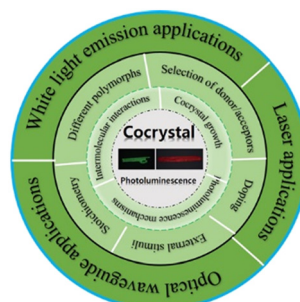


HIGHLIGHTS

6572

Organic charge transfer cocrystals for photoluminescence

Xin Zhang, Zhuo Gao, Xuexia He* and Peng Hu*



RSC Applied Interfaces

GOLD
OPEN
ACCESS

Interfacial and surface research with an applied focus

Interdisciplinary and open access

rsc.li/RSCApplInter

Fundamental questions
Elemental answers

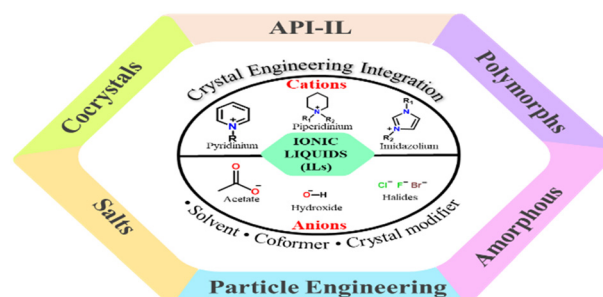


HIGHLIGHTS

6589

Exploration of ionic liquids in crystal engineering: sustainable development of pharmaceutical solid forms

Md Huzaifa Khan, Mohd Danish Khan and Jamshed Haneef*

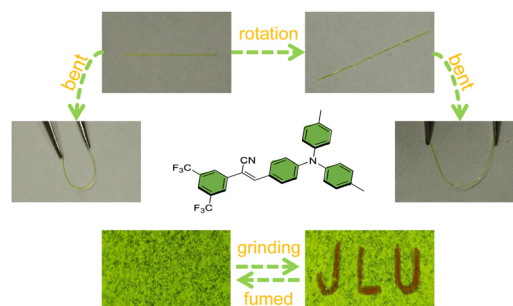


COMMUNICATION

6606

Reversible mechanochromism and polarization modulation in an elastic organic crystal

Baolei Tang, Xuesong Yang, Donghe Chen, Hanlin Hu* and Hongyu Zhang*

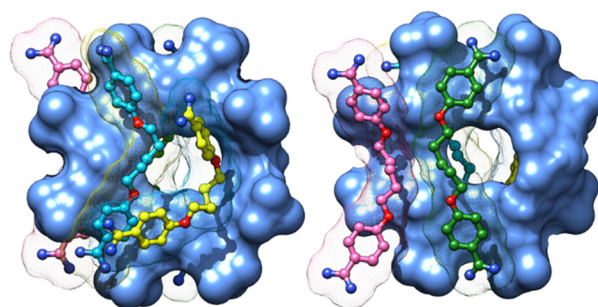


PAPERS

6611

Host-guest conformational adaptation in the crystal complexes of pentamidine and *p*-sulfonato-calix[n]arenes

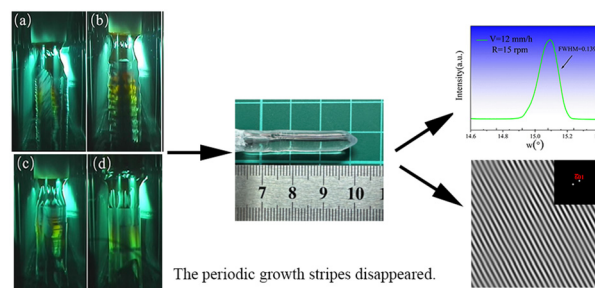
Kateryna Kravets, Mykola Kravets and Oksana Danylyuk*



6623

Dynamic stability, microstructure and optoelectronic performance of β -Ga₂O₃ single crystals prepared by the optical floating zone technique

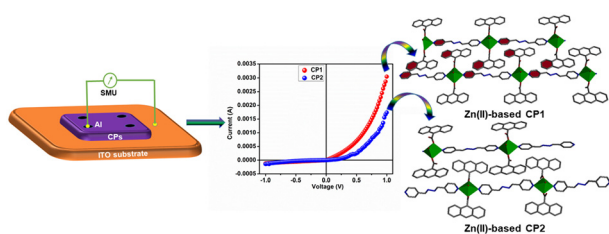
Qiangsheng Zhan, Xinyu Yang,* Zixuan Wang, Zimeng Li, Shifeng Luo and Jiuxing Zhang



The periodic growth stripes disappeared.
(-101) plane of β -Ga₂O₃ single crystal has no dislocation



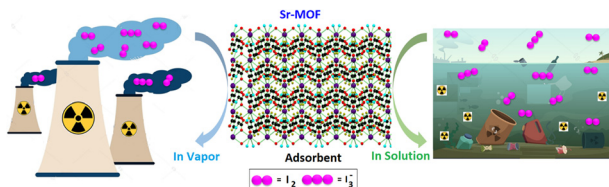
6630



Effect of $\pi\cdots\pi$ interactions on the conductivity of two 1D coordination polymers through one-pot crystallization

Ersad Hossain, Ramjan Sk, Animesh Layek, Samit Pramanik, Antonio Frontera, Partha Pratim Ray,* Mohammad Hedayetullah Mir* and Subrata Mukhopadhyay

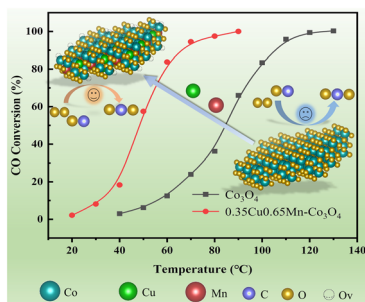
6639



Fabrication of a 3D Sr-based metal–organic framework bearing ant topology for highly efficient iodine capture in solution and vapor phases

Mohd Umar Hayat, Mohd Khalid,* Samrah Kamal, M. Shahid and Musheer Ahmad

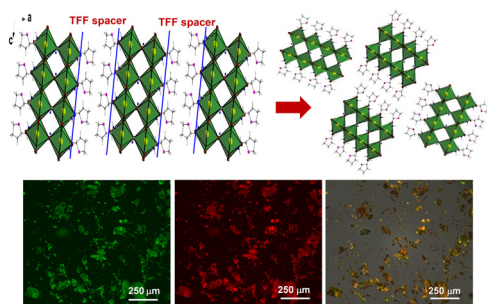
6652



Cu/Mn co-doped Co_3O_4 with enhanced oxygen activation for low-temperature CO oxidation

Ziteng Han, Yilin Du, Zizhen Niu, Peiwei Han, Guowei Wang, Tonghe Wang, Xinjun Li* and Jie Shu*

6660



Near-infrared light emitting diodes based on an oxygen moiety containing 2D Ruddlesden–Popper perovskites

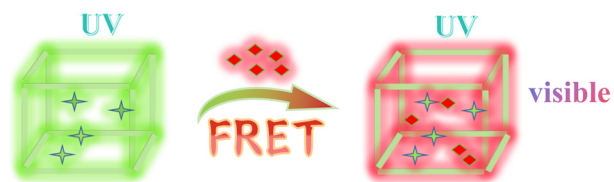
Mi-Hee Jung



6672

Broad-spectrum-excited red afterglow realized via host-guest doping strategy

Aiyun Ni,* Ying Lan, Na Song, Chunmeng Dong, Jingqiao Guo and Xiangling Gu*



6679

Crystal structure and piezoelectric properties of the final member of the pyridylalanine derivative series: [H- β -(3-pyridyl)-Ala-OH][BF₄]

Maciej Wojtaś,* Anna Gągor, Igor Bdkin and Svitlana Kopyl

