

# CrystEngComm

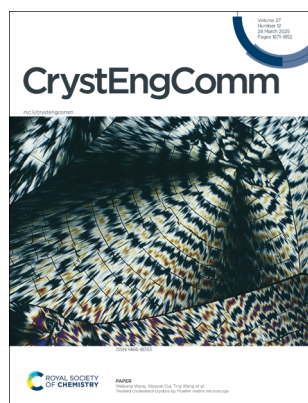
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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### Cover

See Weikang Wang, Xiaoyan Cui, Ting Wang *et al.*, pp. 1687–1693.

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### Inside cover

See Björn H. Greijer and Vadim G. Kessler, pp. 1679–1686.

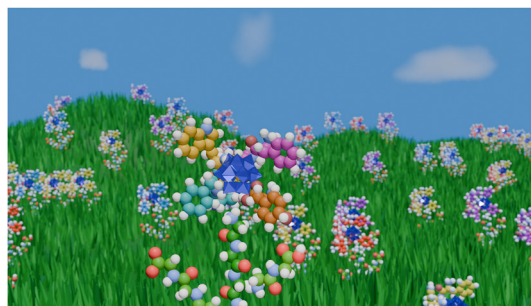
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## HIGHLIGHT

1679

### Unveiling POM-peptide complexes: molecular insights into metal oxide nanoparticle-protein interactions

Björn H. Greijer and Vadim G. Kessler\*

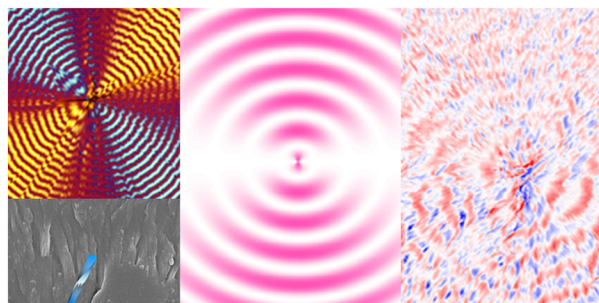


## PAPER

1687

### Twisted cholesterol crystals by Mueller matrix microscopy

Yue Tian, Mengyuan Hao, Yong Tang, Chen Li, Demei Kong, Junru Zhu, Weikang Wang,\* Xiaoyan Cui\* and Ting Wang\*





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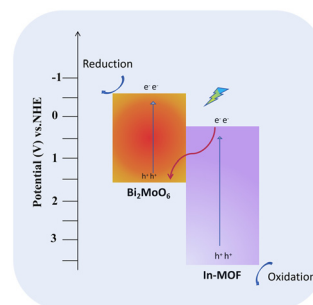


## COMMUNICATIONS

1694

### Synergistic advantages of In-MOF/Bi<sub>2</sub>MoO<sub>6</sub> composites in photocatalytic CO<sub>2</sub> reduction: enhanced light absorption, charge separation and reactivity

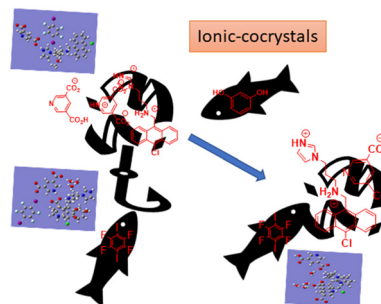
Xiao Zhang, Xiong He, Meng-Yao Ye, Bei-Bei Yuan, Song-Fang Zhao and Kui Li\*



1701

### Facts and reality of multi-component organic ionic-cocrystals of di-topic acid-base conjugates

Abhay Pratap Singh and Jubaraj B. Baruah\*

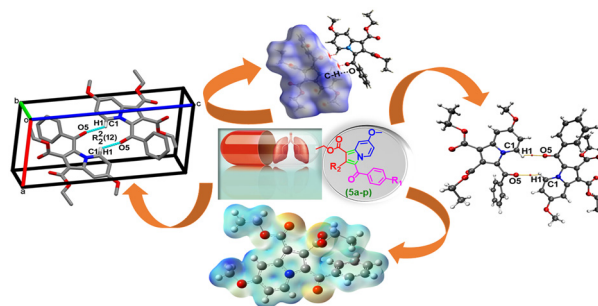


## PAPERS

1707

### Structural analysis, *in vitro* anti-tubercular activities, and *in silico* ADMET evaluation of ethyl 7-methoxy-3-(4-substituted benzoyl)indolizine-1-carboxylates

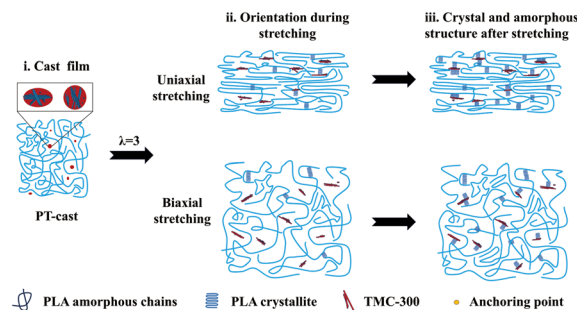
Rahul D. Nagdeve, Jyoti Swarup Thakur, Sandeep Chandrashekarappa, Pradip Kumar Mondal, Pran Kishore Deb, Maurizio Polentarutti, Keshab M. Bairagi, Gourav Rakshit, Osama I. Alwassil, Melendhran Pillay, Katharigatta N. Venugopala\* and Susanta K. Nayak\*



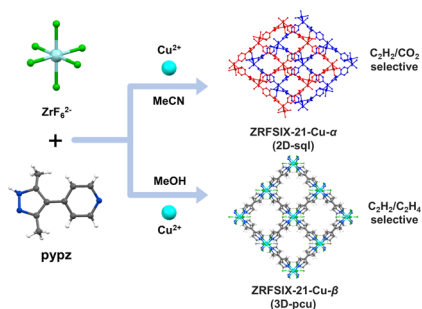
1722

### Structural evolution and mechanism of PLA/TMC-300 films under uniaxial and biaxial stretching

Jia Tan, Lingna Cui,\* Zhixian Qin, Yulin He, Shijuan Ding, Jingbo Li and Yuejun Liu\*



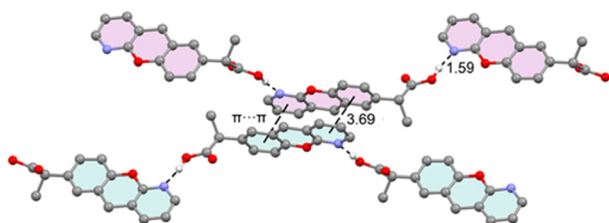
1736



### Fine-tuning of gas uptake and selectivity in a hexafluorozirconate pillared coordination network that features two porous phases

Nathan C. Harvey-Reid, Hayley S. Scott, Komal M. Patil, Naveen Kumar, Colm Healy, Michael J. Zaworotko, Soumya Mukherjee\* and Paul E. Kruger\*

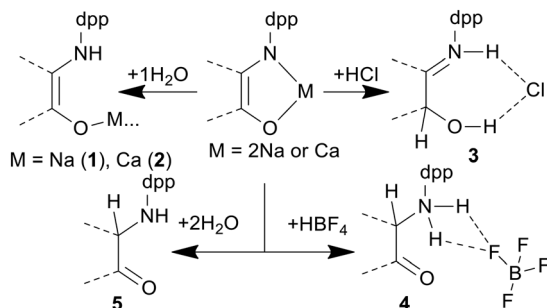
1742



### Interplay of hydrogen bonding and $\pi$ -stacking interactions in the solid-state architecture of pranoprofen: insights from X-ray crystallography and computational analyses

Rafel Prohens,\* Rafael Barbas, Guadalupe Abrego and Antonio Frontera\*

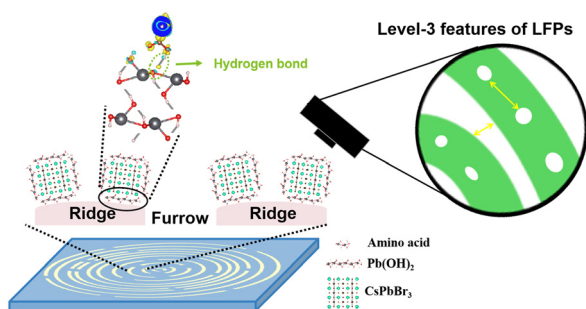
1749



### Partial and complete hydrolysis of metal complexes based on monoiminoacenaphthene-1-ones

Anton N. Lukoyanov,\* Yulia V. Zvereva, Anton V. Cherkasov, Grigory Yu. Zhigulin, Nikita P. Kharitonov and Sergey Yu. Ketkov

1763



### Visualization of level-3 latent fingerprints by surfactant-free CsPbBr<sub>3</sub> MCs with Pb(OH)<sub>2</sub> as a passivation layer and an anchored bridge

Guoxin Zhuang, Yujing Li, Xiaodi Chu, Xianghui Lai, Zhiyu Liang,\* Xiaohui Lin,\* Yonglin Wen, Guosong Lin, Zhechong Zheng and Chonghui Li\*

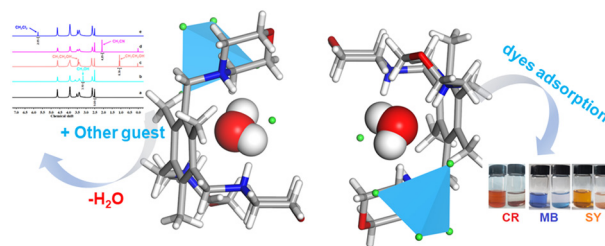


## PAPERS

1773

### Metallo-hydrogen bonded organic frameworks with nitrogen tridentate ligands: exploring inclusion and dye adsorption properties

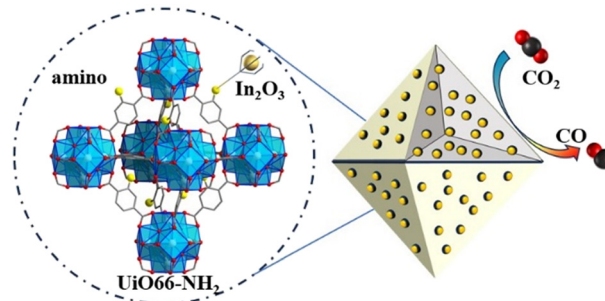
Haitao Li,\* Guangshan Qin, Zhenwei Guo and Fang Guo\*



1781

### UiO66-NH<sub>2</sub>@In<sub>2</sub>O<sub>3</sub> heterostructures for improved photocatalytic CO<sub>2</sub> reduction

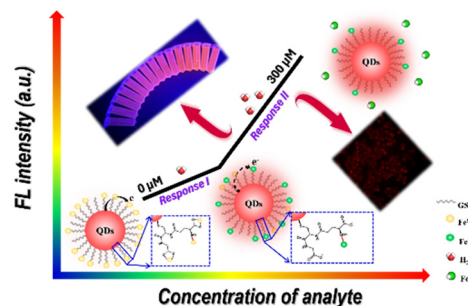
Bolin Ma, Guanghui Chen, Lingling Zhou, Chengyang Ni, Xinyu Sun, Lei Zhang, Xinguo Xi, Lanqin Tang\* and Yong Zhou\*



1789

### Manipulating the surface structure of quantum dots based on dual response modes triggered by iron ions for the visualization of hydrogen sulfide with a wide detection range

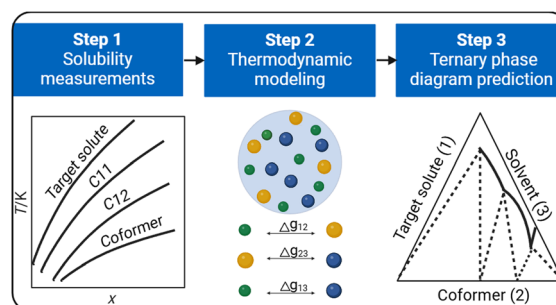
Cong Liu, Rongxiang Feng, Shidi Li, Fengyao Wu, Xiaofei Qi, Xiaohua Huang, Tianyu Bai\* and Shanghua Xing



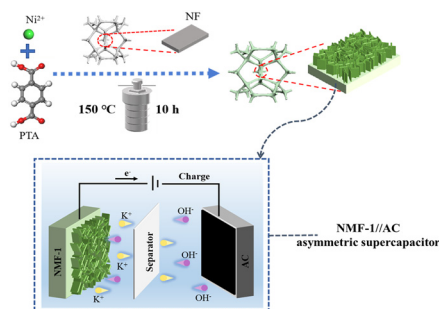
1796

### Predicting the solid-liquid phase diagram of a ternary system with cocrystal formation

Sahar Nasrallah, Ahmad Alhadid\* and Mirjana Minceva\*



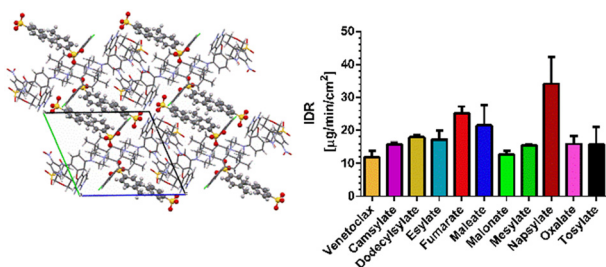
1806



### One-step solvothermal *in situ* synthesis of NiMOF nanosheets for high-performance supercapacitor applications

Xiaojing Wang, Fenglian Lu, Zongjin Wu, Kuantao Zhang, Song Li, Rui Tu, Sha Luo, Hongyan Pan,\* Keliang Wang\* and Qian Lin\*

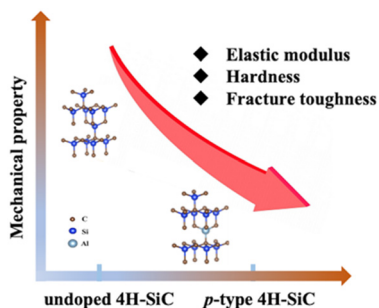
1816



### Pharmaceutical salts of venetoclax with dicarboxylic and sulfonic acids: solid-state characterization and dissolution performance

Tereza Havlůjová, Erika Hriňová, Eliška Zmeškalová, Monika Kučeráková, Luděk Ridvan and Miroslav Šoosť\*

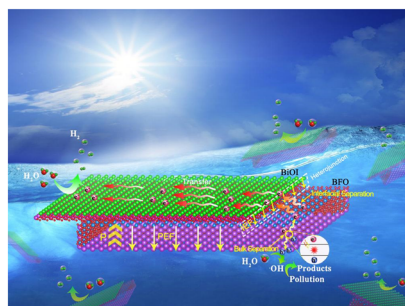
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### The role of aluminum doping in shaping the mechanical properties of p-type 4H-SiC

Yanwei Yang, Zhouyu Tong, Xiaodong Pi,\* Deren Yang and Yuanchao Huang\*

1837



### Synergistic effect of built-in and polarized electric fields in BiFeO<sub>3</sub>/BiOI heterojunctions for efficient photocatalysis

Jiangwen Bai, Jiamin Li, Jinqing Xiang and Chongfeng Guo\*

