

# CrystEngComm

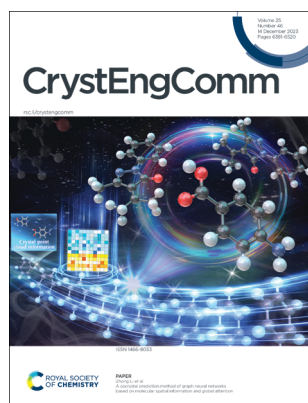
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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## IN THIS ISSUE

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### Cover

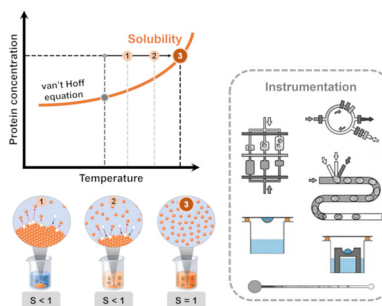
See Zhong Li *et al.*, pp. 6405–6415. Image reproduced by permission of Yanlei Kang from *CrystEngComm*, 2023, 25, 6405.

## HIGHLIGHT

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### Advances in protein solubility and thermodynamics: quantification, instrumentation, and perspectives

Joana Ferreira and Filipa Castro\*

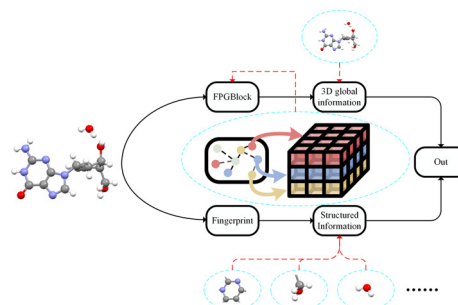


## PAPERS

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### A cocrystal prediction method of graph neural networks based on molecular spatial information and global attention

Yanlei Kang, Jiahui Chen, Xiurong Hu, Yunliang Jiang and Zhong Li\*



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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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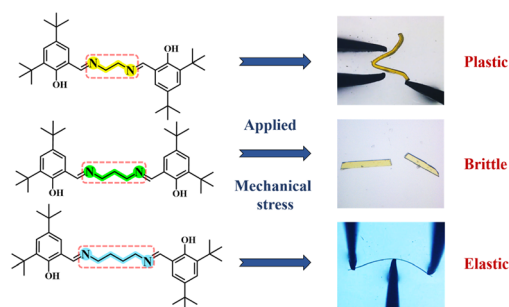
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### Linker size dependent mechanical properties of diimine based molecular crystals

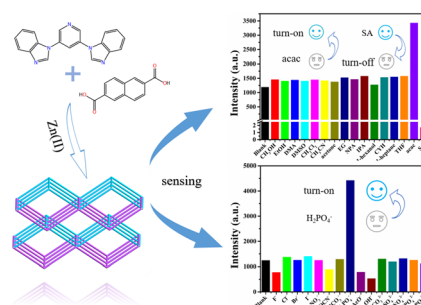
Deepak Manoharan, Shamim Ahmad, Srinu Tothadi, Franziska Emmerling, Biswajit Bhattacharya\* and Soumyajit Ghosh\*



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### 2D → 3D polycatenated Zn(II) metal-organic framework with good chemical stability as a fluorescent sensor toward salicylaldehyde, acetylacetone and H<sub>2</sub>PO<sub>4</sub><sup>-</sup>

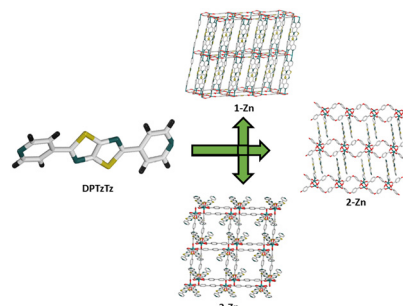
Ya-Ping Li,\* Jian-Hua Zhang, Xiao-Xia Zhang and Sui-Jun Liu\*



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### The physical and electronic properties of Metal-Organic Frameworks containing dipyrldithiazolo[5,4-d]thiazole

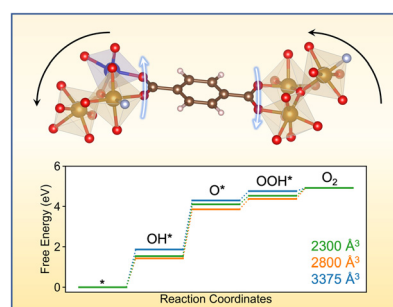
Felix J. Rizzuto, Shyam C. Pal, Eleanor R. Kearns, Carol Hua, Marcello B. Solomon, Patrick W. Doheny, Thomas B. Faust, Cameron J. Kepert,\* Madhab C. Das\* and Deanna M. D'Alessandro\*



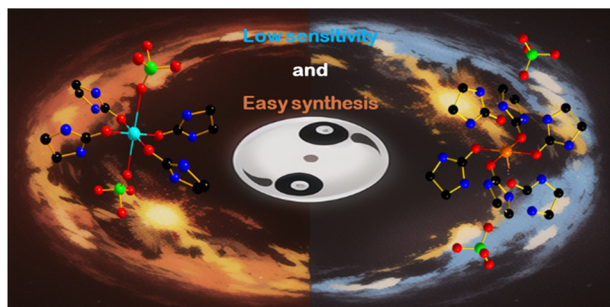
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### Catalytic activities modulated by flexible bimetallic metal-organic frameworks

Xiang He\*



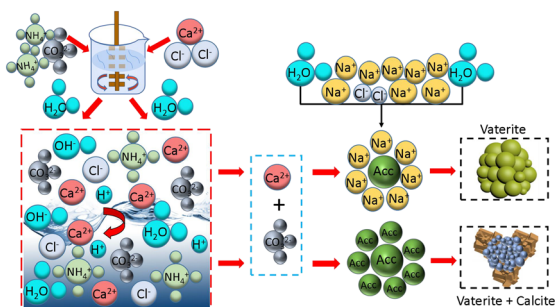
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## 2-Imidazolidone metal complexes: increased hydrogen bonds and fused ring ligand ratio to be insensitive

Baolong Kuang,\* Tingwei Wang,\* Chao Zhang, Han Zhang, Zujia Lu, Zhiming Xie, Meiqi Xu, Zhenxin Yi and Jianguo Zhang\*

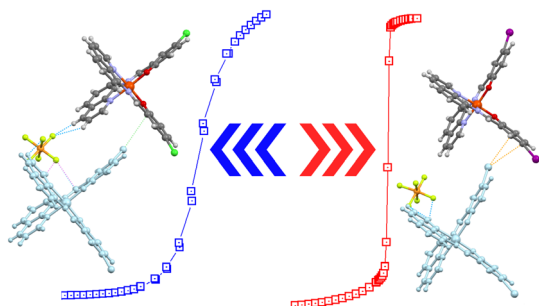
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## Influence of Na<sup>+</sup> on vaterite formation, content and yield using steamed ammonia liquid waste as a calcium source

Xuwen Song,\* Xinrui Hua, Xiaomin Zhang,\* Yuxin Tuo, Yihan Su, Jianxiang Ma,\* Sicheng Mu, Tianxing Chen, Panyang He, Lianjing Ma and Cunjian Weng\*

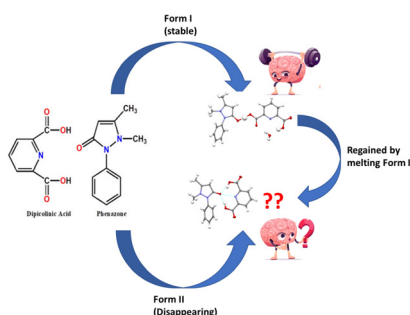
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## Structural features that modulate the sharpness of the spin crossover transition in [Fe<sup>III</sup>(5-X-qsal)<sub>2</sub>]<sup>+</sup> based salts

Bruno J. C. Vieira,\* Laura C. J. Pereira,\* Vasco da Gama and João C. Waerenborgh

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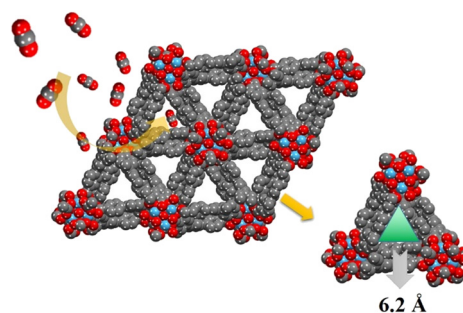
Sehrish Akram, Arshad Mehmood,\* Sajida Noureen and Maqsood Ahmed\*



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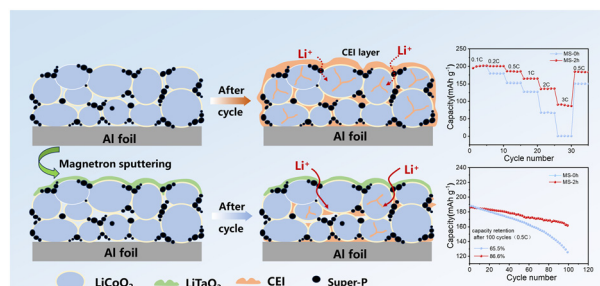
Yali Ma, Haitang Wang, Hailong Wang, Jiani Wang, Shuaiyu Jiang, Qiang Zheng, Songyan Jia, Xue Li\* and Tianyi Ma\*



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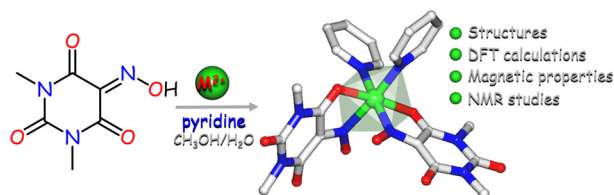
Chenhui Wang, Shaopeng Li, Weiyi Chen, Yining Zhao, Shu Xu, Hui Dou and Xiaogang Zhang\*



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### Two isostructural complexes of Ni(II) and Zn(II) with violurate and pyridine: a detailed structural, theoretical, magnetic, and NMR investigation

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### Microwave-assisted hydrothermal solution process for accelerated formation of 3D hierarchical flowery anatase-TiO<sub>2</sub> microspheres with excellent photocatalytic activity

Praveen Kumar Lavudya, SuryaBindu Sessa Devarakonda, Harita Pant, Sarah Geo, Avijit Tudu, Vadali Venkata Satya Siva Srikanth and Rajanikanth Ammanabrolu\*

