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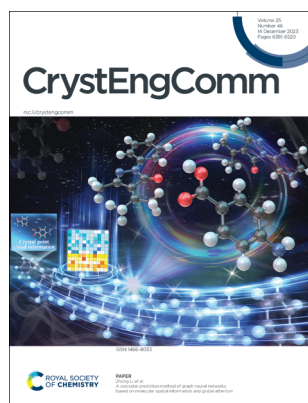
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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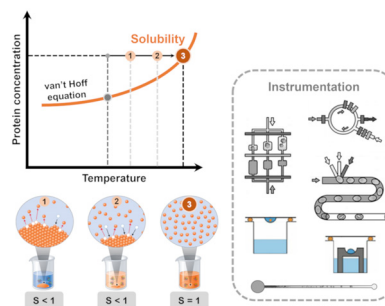
See Zhong Li *et al.*,
pp. 6405–6415.
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HIGHLIGHT

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

Joana Ferreira and Filipa Castro*

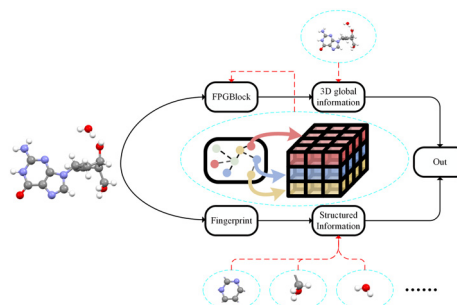


PAPERS

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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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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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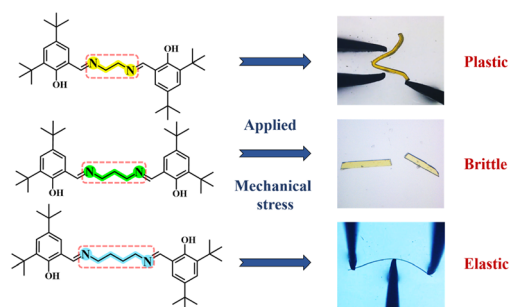
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Linker size dependent mechanical properties of di-imine based molecular crystals

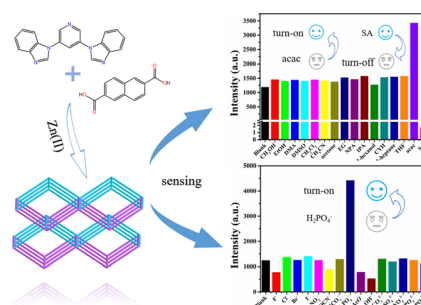
Deepak Manoharan, Shamim Ahmad, Srinu Tothadi, Franziska Emmerling, Biswajit Bhattacharya* and Soumyajit Ghosh*



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2D → 3D polycatenated Zn(II) metal–organic framework with good chemical stability as a fluorescent sensor toward salicylaldehyde, acetylacetone and H₂PO₄[−]

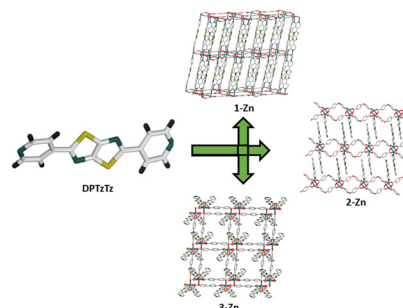
Ya-Ping Li,* Jian-Hua Zhang, Xiao-Xia Zhang and Sui-Jun Liu*



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The physical and electronic properties of Metal–Organic Frameworks containing dipyrldylthiazolo[5,4-*d*]thiazole

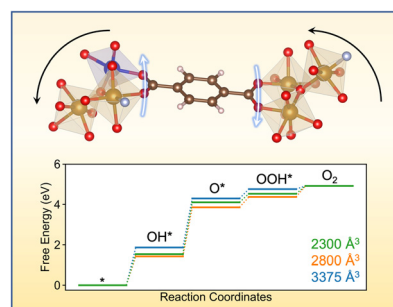
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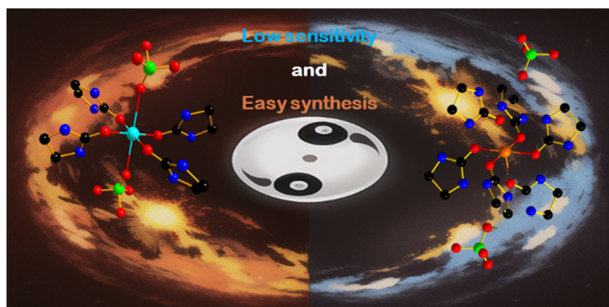
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Catalytic activities modulated by flexible bimetallic metal–organic frameworks

Xiang He*



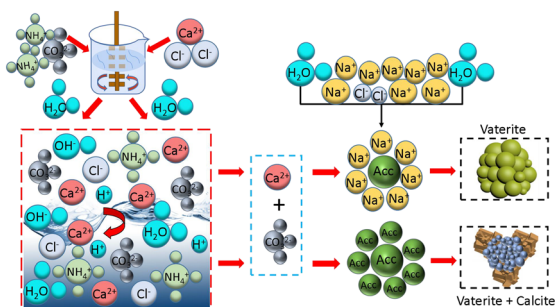
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2-Imidazolidone metal complexes: increased hydrogen bonds and fused ring ligand ratio to be insensitive

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

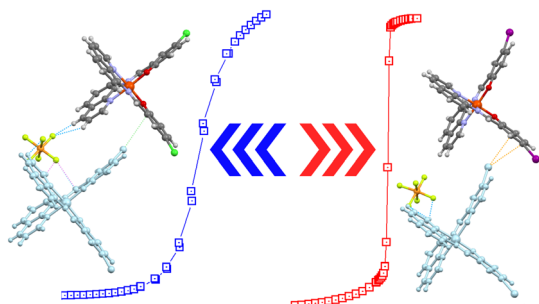
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Influence of Na⁺ on vaterite formation, content and yield using steamed ammonia liquid waste as a calcium source

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

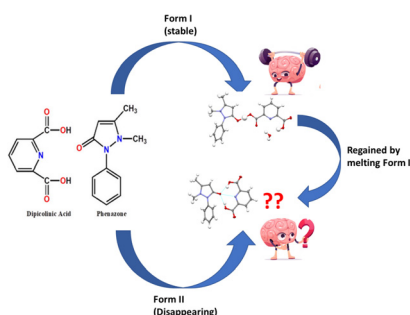
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Structural features that modulate the sharpness of the spin crossover transition in [Fe^{III}(5-X-qsal)₂]⁺ based salts

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

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In the pursuit of a ‘disappearing’ anhydrous phase of the antipyrine–dipicolinic acid (ANT–DPA) co-crystal: explained through relative stability and charge density analyses

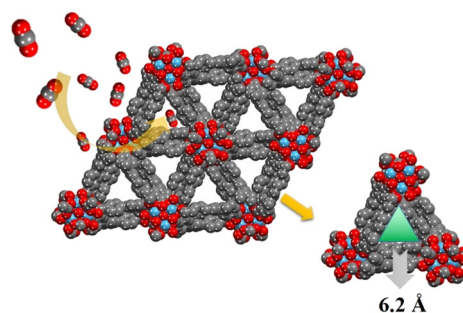
Sehrish Akram, Arshad Mehmood,* Sajida Noureen and Maqsood Ahmed*



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A stable ultra-microporous hafnium-based metal-organic framework with high performance for CO₂ adsorption and separation

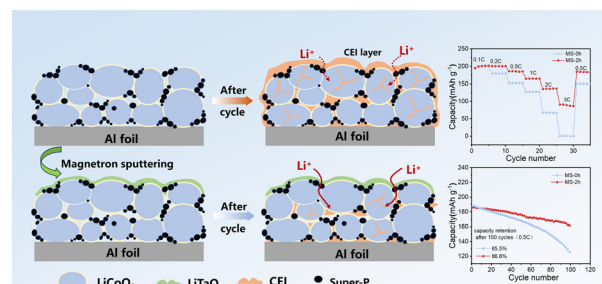
Yali Ma, Haitang Wang, Hailong Wang, Jiani Wang, Shuaiyu Jiang, Qiang Zheng, Songyan Jia, Xue Li* and Tianyi Ma*



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The improvement of the high voltage performance of LiCoO₂ by coating LiTaO₃ via magnetron sputtering

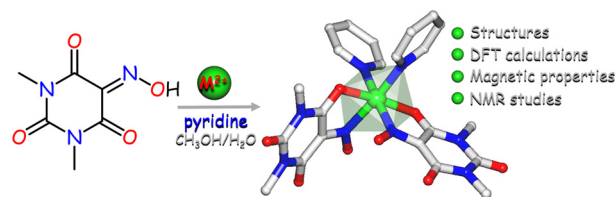
Chenhui Wang, Shaopeng Li, Weiye Chen, Yining Zhao, Shu Xu, Hui Dou and Xiaogang Zhang*



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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

Subhadip Roy, Susital Mal, Rupak Banik, Subrata Das,* Ľubor Dlhán, Ján Titiš,* Roman Boča, Alexander M. Kirillov,* Alexander S. Novikov, Paul Hazendonk,* Ray J. Butcher, Antonio Bauza and Antonio Frontera*



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Microwave-assisted hydrothermal solution process for accelerated formation of 3D hierarchical flowery anatase-TiO₂ microspheres with excellent photocatalytic activity

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

