

# CrystEngComm

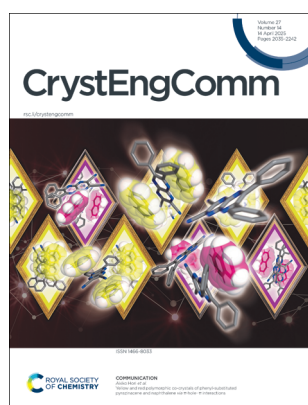
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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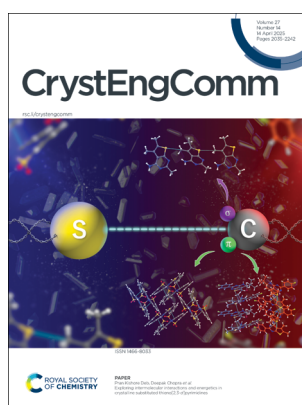
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## IN THIS ISSUE

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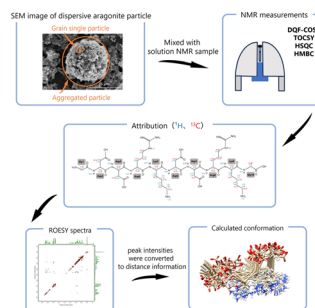
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## HIGHLIGHT

2043

### Conformational analysis of biomineral proteins interacting with inorganic minerals using dispersive mineral particles for solution NMR

Kei Futagawa, Yugo Kato and Michio Suzuki\*

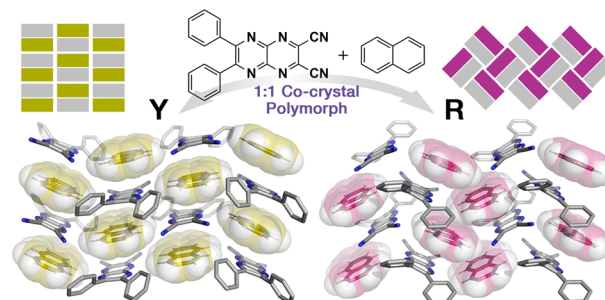


## COMMUNICATION

2064

### Yellow and red polymorphic co-crystals of phenyl-substituted pyrazinacene and naphthalene via $\pi$ -hole $\cdots\pi$ interactions

Kazushi Nakada, Gary J. Richards and Akiko Hori\*



# RSC Applied Interfaces

GOLD  
OPEN  
ACCESS

## Interfacial and surface research with an applied focus

### Interdisciplinary and open access

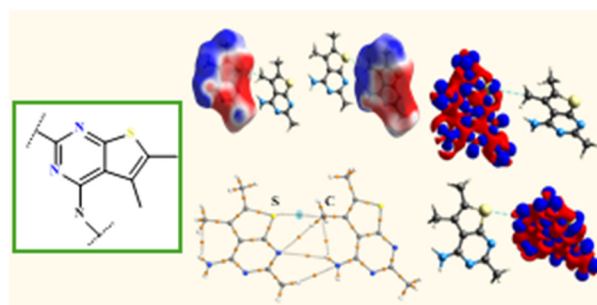
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Fundamental questions  
Elemental answers

2070

### Exploring intermolecular interactions and energetics in crystalline substituted thieno[2,3-*d*]pyrimidines

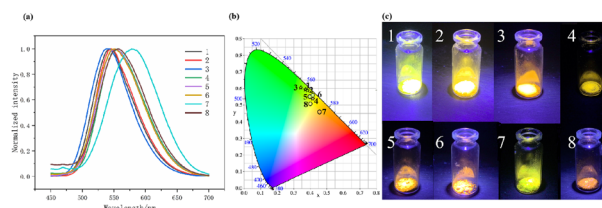
Pran Kishore Deb,\* Anila M. Menon, Fathima Nida PSR, Ipsha Shruti, Sara Nidal, Katharigatta N. Venugopala and Deepak Chopra\*



2086

### Synthesis, characterization, and green to orange luminescence properties of copper(I) complexes with 3-bdppmapy ligand-containing phenanthroline and its derivatives

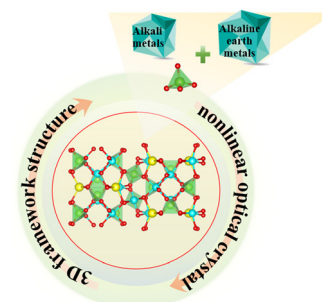
Wen-Long Mou, Si-Jie Fan, Ying-Long Wang, Guo Wang, Fu-Zhen Hu, Gui-Xiong Guo, Hong-Liang Han, Xiu-Lan Xin, Jian-Ming Liu, Yu-Ping Yang, Zhong-Feng Li\* and Qiong-Hua Jin\*



2101

### Exploring quaternary vanadates containing alkali metals, alkaline earth metals, and [VO<sub>4</sub>] in the quest for nonlinear optical materials

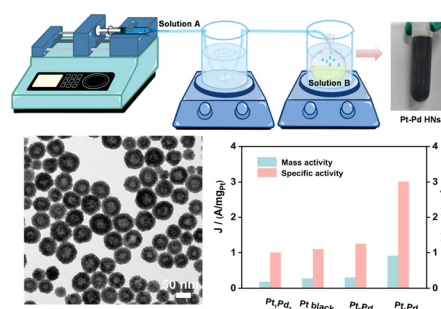
Xiaoming Wang, Qiuyuan Feng, Ketian Hou, Wei Wei, Juanjuan Lu, Lai Wei\* and Feng Zhang\*



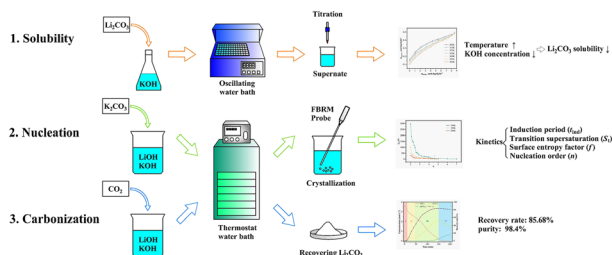
2108

### Microinjection-assisted synthesis of Pt–Pd hollow nanoparticles for enhanced methanol oxidation reactions

Dan Zhao, Pan Zeng, Xinyu Wang, Fuquan Wang, Huiting Wu, Yujia Zhai, Dandan Men,\* Yiqiang Sun, Wenshan Qu\* and Haijian Li\*



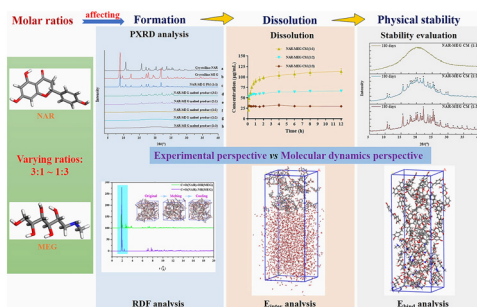
2115



## Reactive crystallization of $\text{Li}_2\text{CO}_3$ in $\text{LiOH}/\text{KOH}$ solutions: solubility, nucleation and carbonization

Zhuofan Chen, Yuhao Chen, Youfa Jiang, Chenglin Liu\* and Jianguo Yu

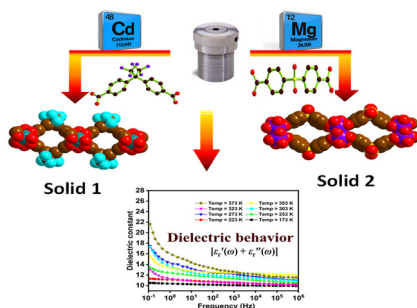
2124



## Effect of molar ratios on formation, dissolution and physical stability of co-amorphous naringenin-meglumine by integrating theoretical-modeling-experimental techniques

Jiawei Han, Wen Sun, Jiaxin Chen, Zhimin Yue, Weitao Fang, Xiaoqian Liu,\* Jue Wang\* and Gaorong Wu\*

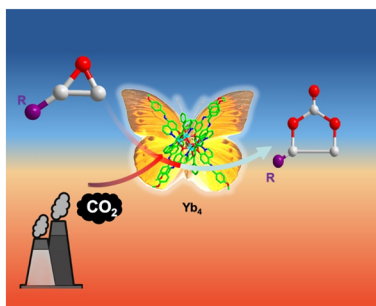
2136



## Effect of coordinated and lattice neutral co-ligands on the dielectric properties of cadmium and magnesium based coordination polymers

Balendra,\* Mahboob Ali, Sanyukta and Sevi Murugavel

2148



## Two novel tetranuclear $\text{Yb(III)}$ -based compounds for highly efficient conversion of $\text{CO}_2$ to cyclic carbonates

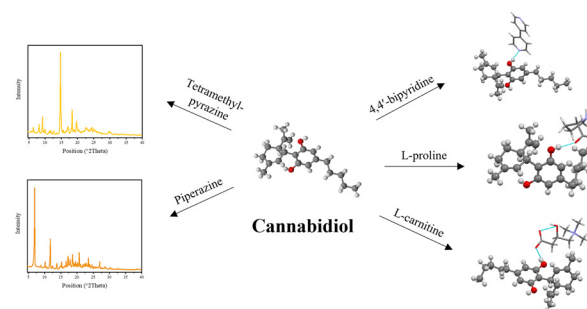
Yining Sun, Guoguo Liu, Gang Xiong and Guangwen Xu\*



2154

### Stability study and structural insights into cannabidiol cocrystals

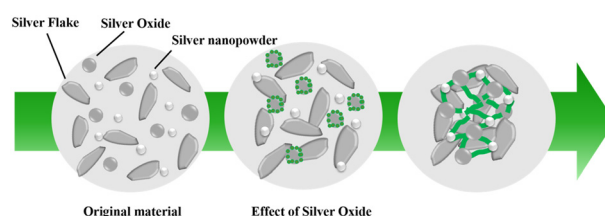
Adéla Koryťáková, Argyro Chatziadi, Jan Rohlíček, Eliška Zmeškalová, Josef Beránek and Miroslav Šoosč\*



2166

### Silver oxide-mediated synergistic enhancement of conductivity and adhesion in low-temperature cured silver pastes

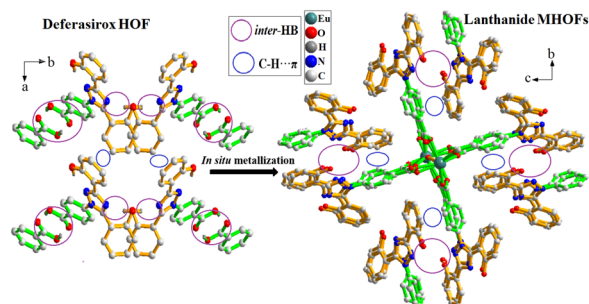
Yi-Chen Guo, Xiao-Gang Liao, Qi Wu, Yu-Xuan Hao, Zi-Hao Wang, Wen-Yan Zhang\* and Yao-Yu Wang



2175

### Deferasirox HOF and its *in situ* metallization affording a new family of lanthanide coordination polymer-based MHOFs

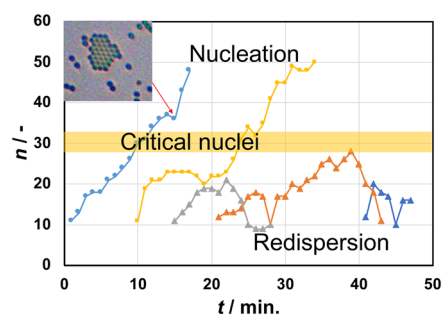
Yue-Mei Cao, Ying He, Xin-Yue Pei, Jia-Xing Liang, Jing Feng, Hong-Yan Wang and Qi-Bing Bo\*



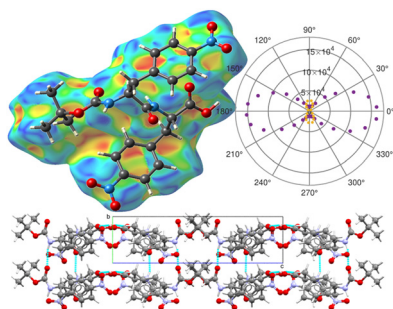
2190

### Thermodynamic analyses of critical nuclei and crystallization entropy using size distributions of small clusters of two-dimensional colloidal crystals

Yoshihisa Suzuki,\* Keigo Kishida, Hiroyasu Katsuno and Masahide Sato



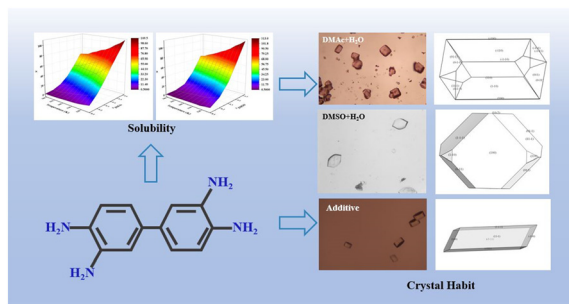
2195



### Second harmonic generation and crystal structure of a self-assembled Boc-*p*-nitro-L-phenylalanyl-*p*-nitro-L-phenylalanine dipeptide

Rosa M. F. Baptista,\* Alejandro P. Ayala, Etelvina de Matos Gomes, M. Cidália R. Castro, Ana V. Machado and Michael S. Belsley

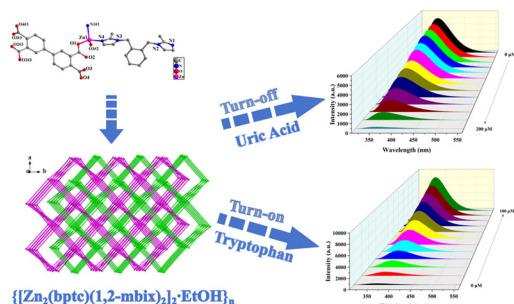
2204



### Mechanistic study on the crystal habit of 3,3'-diaminobenzidine in the presence of solvents and additives

Jiawei Zhao, Na Wang,\* Lina Zhou, Ting Wang, Xin Huang, Ailian Wang, Longgui Zhang and Hongxun Hao\*

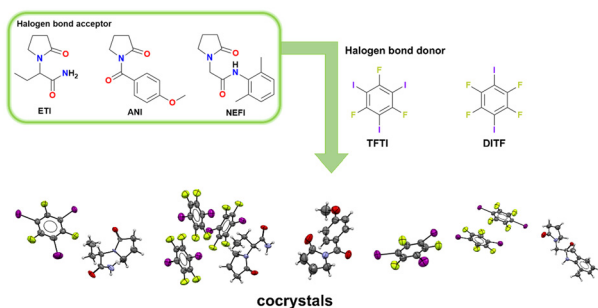
2223



### A stable two-fold interpenetrated 3D Zn(II) MOF for fluorescence sensing of uric acid and tryptophan

Fang-Hua Zhao,\* Yu-Shuo Li, Shu-Qi Li, Xiao-Hong Wu, Yuan-Chun He and Zhong-Lin Li\*

2233



### Halogen-bonded cocrystallization of racetam pharmaceuticals and perfluorinated iodobenzenes

Lixing Song,\* Lijie Wei, Chunling Liu, Yiwei Liu and Xiang Lian\*

