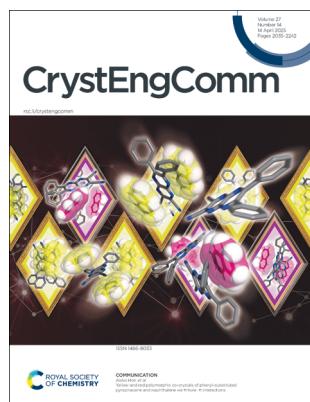


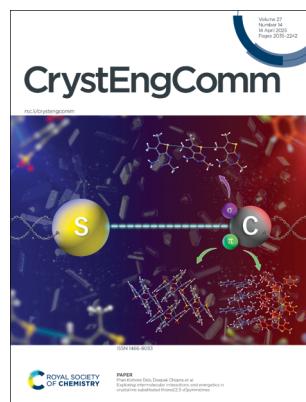
IN THIS ISSUE

ISSN 1466-8033 CODEN CRECF4 27(14) 2035–2242 (2025)



Cover

See Akiko Hori et al.,
pp. 2065–2070.
Image reproduced by
permission of Akiko Hori
from *CrystEngComm*,
2025, 27, 2065.



Inside cover

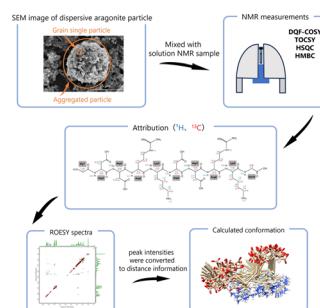
See Deepak Chopra et al.,
pp. 2071–2086.
Image reproduced by
permission of Deepak Chopra
from *CrystEngComm*,
2025, 27, 2071.
Cover artwork designed by
Amen Anees

HIGHLIGHT

2043

Conformational analysis of biomimetic 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 π -hole... π 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

rsc.li/RSCApplInter

Fundamental questions
Elemental answers

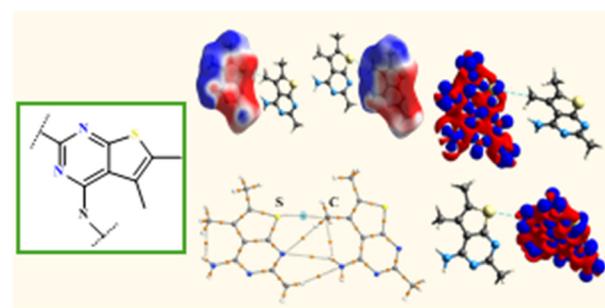
Registered charity number: 207890

PAPERS

2070

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

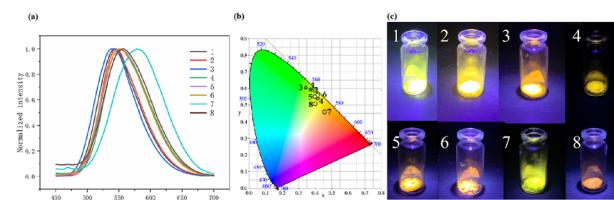
Pran Kishore Deb,* Anila M. Menon, Fathima Nida PSR, Ipsa Shruti, Sara Nidal, Katharigatta N. Venugopala and Deepak Chopra*



2086

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

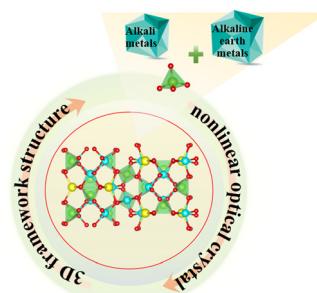
Wen-Long Mou, Si-Jie Fan, Ying-Long Wang, Guo Wang, Fu-Zhen Hu, Gui-Xiong Guo, Hong-Liang Han, Xiu-Lan Xin, Jian-Ming Liu, Yu-Ping Yang, Zhong-Feng Li* and Qiong-Hua Jin*



2101

Exploring quaternary vanadates containing alkali metals, alkaline earth metals, and $[VO_4]$ in the quest for nonlinear optical materials

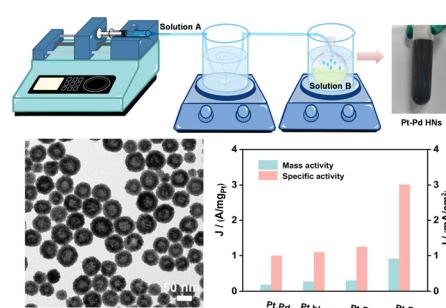
Xiaoming Wang, Qiuyuan Feng, Ketian Hou, Wei Wei, Juanjuan Lu, Lai Wei* and Feng Zhang*



2108

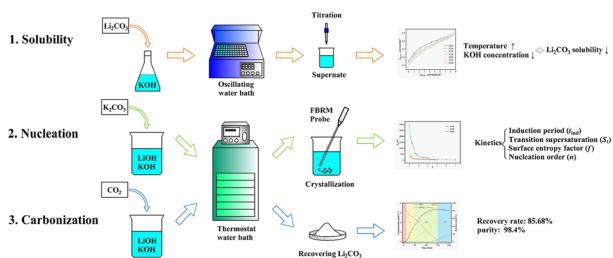
Microinjection-assisted synthesis of Pt–Pd hollow nanoparticles for enhanced methanol oxidation reactions

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



PAPERS

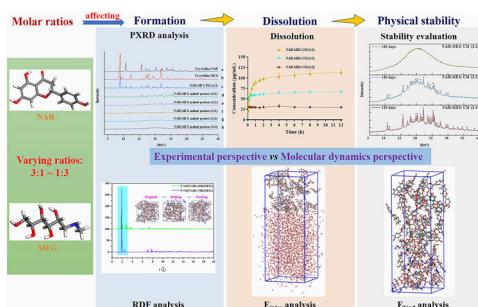
2115



Reactive crystallization of Li_2CO_3 in LiOH/KOH solutions: solubility, nucleation and carbonization

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

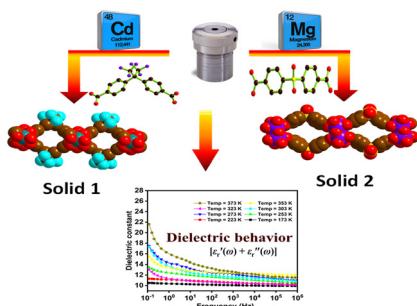
2124



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*

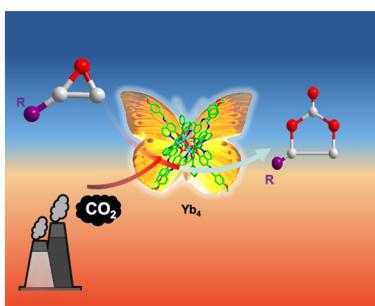
2136



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 tetrานuclear $\text{Yb}(\text{III})$ -based compounds for highly efficient conversion of CO_2 to cyclic carbonates

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

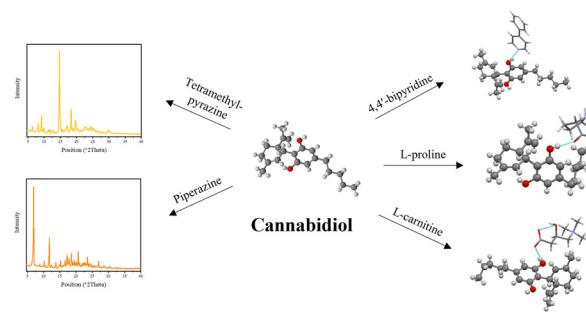


PAPERS

2154

Stability study and structural insights into cannabidiol cocrystals

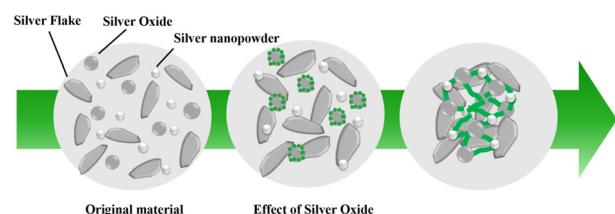
Adéla Korytáková, Argyro Chatziadi, Jan Rohlíček, Eliška Zmeškalová, Josef Beránek and Miroslav Šoós*



2166

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

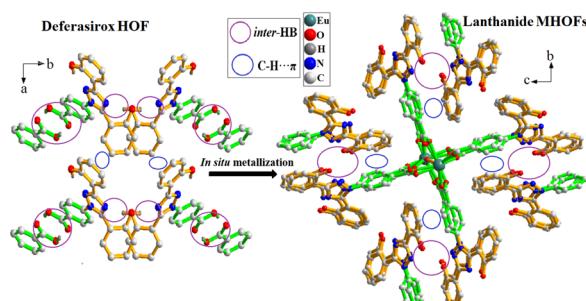
Yi-Chen Guo, Xiao-Gang Liao, Qi Wu, Yu-Xuan Hao, Zi-Hao Wang, Wen-Yan Zhang* and Yao-Yu Wang



2175

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

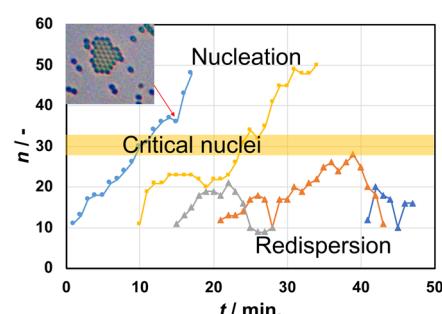
Yue-Mei Cao, Ying He, Xin-Yue Pei, Jia-Xing Liang, Jing Feng, Hong-Yan Wang and Qi-Bing Bo*



2190

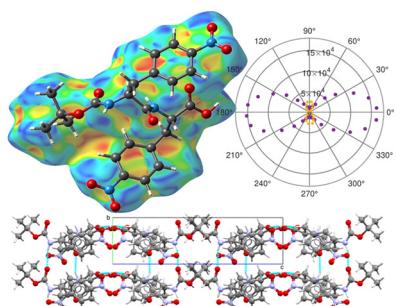
Thermodynamic analyses of critical nuclei and crystallization entropy using size distributions of small clusters of two-dimensional colloidal crystals

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



PAPERS

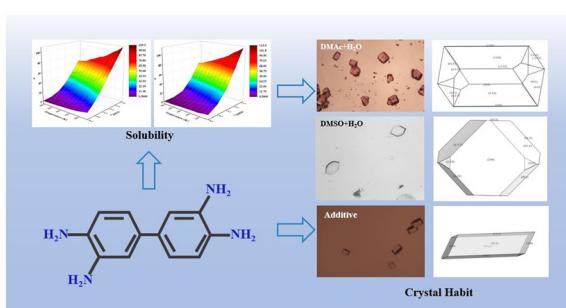
2195



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

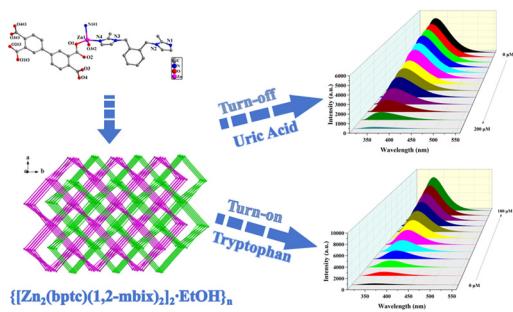
2204



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*

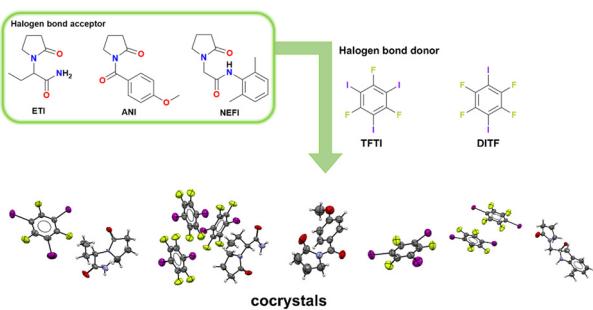
2223



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*

