CrystEngComm

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

rsc.li/crystengcomm

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1466-8033 CODEN CRECF4 27(3) 289-448 (2025)



Cover See Kittipong Chainok et al., pp. 297-301. Image reproduced by permission of Kittipong Chainok from CrystEngComm, 2025, 27, 297.

COMMUNICATIONS

297

Structure features of a supramolecular organic framework self-assembled from a chiral natural compound

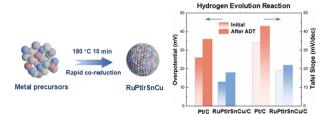
Kenika Khotchasanthong, Yupa Pootaeng-On, Kanok-on Rayanil,* Mongkol Sukwattanasinitt, Sakchai Laksee and Kittipong Chainok*



302

Rapid co-reduction synthesis of ultrafine multiprincipal element alloy nanocatalysts for efficient hydrogen evolution

Yongjun Jiang, Yuankai Zhu, Yanyan Jia* and Sheng Dai*







RSC Advances

At the heart of open access for the global chemistry community

Editors-in-Chief Russell Cox University of Bristol & Leibniz Universität, Germany Karen Faulds University of Strathclyde, UK



Breadth We publish work in all areas of chemistry and reach a global readership



Affordability Low APCs, discounts and waivers make publishing open access achievable and sustainable



Quality Research to advance the chemical sciences undergoes rigorous peer review for a trusted, society-run journal



Community Led by active researchers, we publish quality work from scientists at every career stage, and all countries

Join | Submit now | rsc.li/rsc-advances

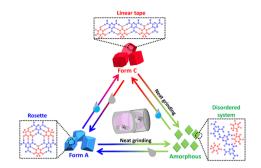
Registered charity number: 207890

COMMUNICATIONS

307

Three-phase reversible mechanochemical interconversion of hydrogen-bonded melamine: barbiturate co-crystals: from rosette to linear tape polymorphs

Inês C. B. Martins,* Ana M. Belenguer,* Giulio I. Lampronti and Petr Motloch*



PAPERS

311

A novel bis-(triazolyl)-furoxan energetic compound -graphene-like crystal structure for balancing energy and sensitivity

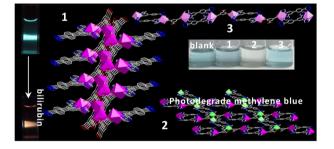
Jiapeng Wang, Jianhua Wang, Yucun Liu,* Junming Yuan, Yanwu Yu, Yankang Zhang and Xuejian Yan



325

Tailoring the coordination microenvironment of Zn(II) in a light-responsive coordination polymer system for molecular sensing and photodegradation performance

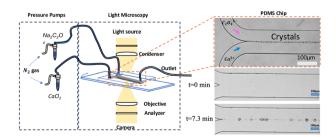
Yan Zhao, Xing Zhou,* Zheng-Yu Liu, Jia-Jun Wang, Bo Ding, Gui-Xi Liu and En-Cui Yang*



337

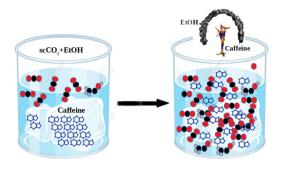
Crystal growth of calcium oxalate mono- and dihydrate under laminar flow in microfluidic devices

Fatma İbiş-Özdemir, René Smeets, Jiali Wang, Priya Dhand, Majid Mohamedhoesein, Frederico Marques Penha, Johan Grievink, Antoine E. D. M. van der Heijden, Herman J. M. Kramer and Huseyin Burak Eral*



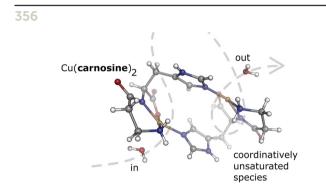
PAPERS

347



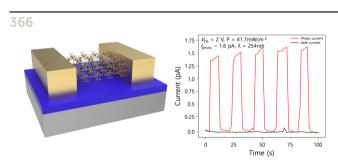
Dissolution of caffeine crystals in a supercritical CO2-ethanol mixture: exploring an eco-friendly green solvent

Aarti Kumari and Moumita Saharay*



Robustness and stability of the L-carnosine copper(II) dimer: changes in the copper coordination sphere upon heating/solvent substitution

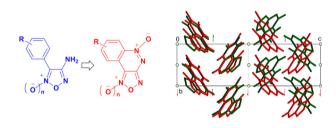
Draginja Mrvoš-Sermek, Marina Tašner, Darko Vušak, Nenad Judaš, Kinga Wzgarda-Raj,* Ivica Đilović* and Dubravka Matković-Čalogović



Chemical vapor transport synthesis of onedimensional V₂PS₁₀ and its application in miniaturized UV sensors

Jinsu Kang, Sooheon Cho, Xiaojie Zhang, Bom Lee, Byung Joo Jeong, Kyung Hwan Choi, Jiho Jeon, Sang Hoon Lee, Jae-Hyuk Park, Sang Hyuk Kim,* Hak Ki Yu* and Jae-Young Choi*

372



R-Substituent vs. exocyclic oxygen: influence on synthesis and crystal packing of R-[1,2,5] oxadiazolo[3,4-c]cinnoline mono- and dioxides

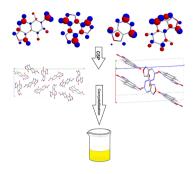
Victor P. Zelenov,* Ivan V. Fedyanin, Aida I. Samigullina, Alexandr A. Larin and Aleksei B. Sheremetev

PAPERS

386

Cocrystals of [1,2,5]oxadiazolo[3,4-c]cinnoline 5-oxides and 1,5-dioxides: step-by-step development of crystal engineering of energetic materials

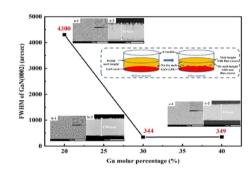
N. M. Baraboshkin, * V. P. Zelenov, I. V. Fedyanin, A. I. Samigullina and M. S. Klenov



400

Influence of Na: Ga ratios under the flux-excess aid on GaN crystal growth using the Na-flux LPE method

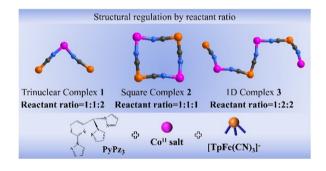
Chen Yang, Gemeng Huang, Ronglin Pan, Ziyou Wang, Ming Ma, Song Xia, Mingbin Zhou, Shiji Fan and Zhenrong Li*



407

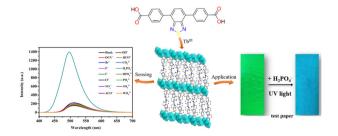
Structural regulation of three Fe-Co cyanometallate complexes: reactant ratio issue

Qiuyu Li, Qiuyue Cao, Jing Xi, Ziyi Zhang, Binling Yao,* Dong Shao, Yi-Fei Deng and Yuan-Zhu Zhang*



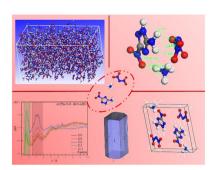
Chain-based fluorescent Tb^{III} metal-organic framework with good stability as a blue-shift and turn-on sensor toward H₂PO₄

Shi-Xian Xu, Na Lu, Li Wang and Sui-Jun Liu*



PAPERS

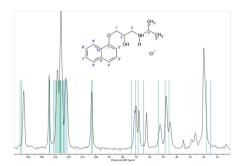
421



Properties of the ADN/ANTA cocrystal based on theoretical simulation

Zhihong Yu, Liang Zhou, Wenlian Peng, Zhihua Zhuang, Hanqing Xu, Jinyan He, Hao Chen, Pengcheng Zhang* and Xinggao Zhang*

433



Combining X-ray and NMR crystallography to explore the structural disorder in racemic propranolol hydrochloride

Łukasz Szeleszczuk,* Kostas Bethanis,* Elias Christoforides and Dariusz Maciej Pisklak