

CrystEngComm

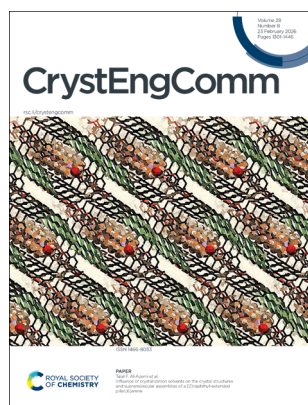
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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 28(8) 1301-1446 (2026)



Cover
See Talal F. Al-Azemi *et al.*, pp. 1331–1338.
Image reproduced by permission of Talal F. Al-Azemi from *CrystEngComm*, 2026, 28, 1331.



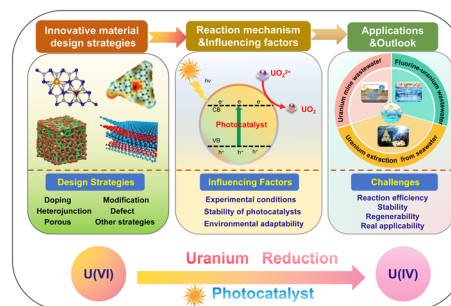
Inside cover
See Ashwini K. Nangia *et al.*, pp. 1339–1350.
Image reproduced by permission of Kirthi Joshi, Shruti Sangwan, K. V. Jovan Jose, Vipin. Agarwal and Ashwini K. Nangia from *CrystEngComm*, 2026, 28, 1339.

HIGHLIGHT

1308

Photo-assisted uranium reduction separation: material design, application, challenges, and perspectives

Guolin Yang,* Ling Wei, Xinghe Teng, Lei Li, Wenjie Sun, Huanhuan Dong, Yihao Wang, Hui Zhu, Zhishu Li, Yi Dai, Bo Mu, Baofeng Chen and Tao Chen*

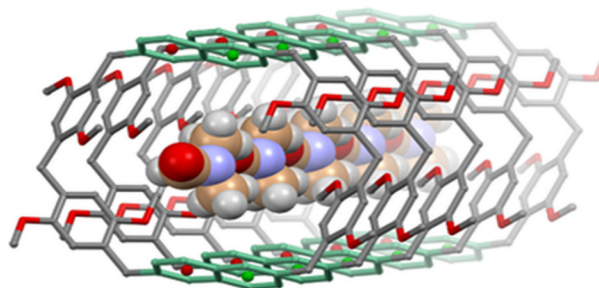


PAPERS

1331

Influence of crystallization solvents on the crystal structures and supramolecular assemblies of a [2] naphthyl-extended pillar[6]arene

Randa Abd Almoaen, Mickey Vinodh, Fatemeh H. Alipour and Talal F. Al-Azemi*





EES Solar

Exceptional research on solar energy and photovoltaics

Part of the EES family

Join in | Publish with us
rsc.li/EESSolar

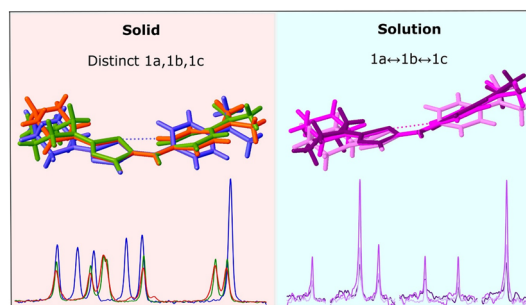
Registered charity number: 207890



1339

Solid-state conformations of pharmaceutical polymorphs in solution: validation and invalidation by NMR.

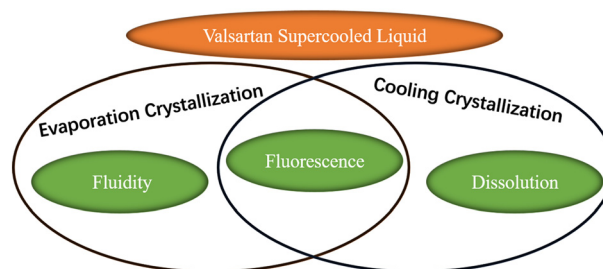
Kirithi Joshi, Shruti Sangwan, K. V. Jovan Jose, Vipin. Agarwal* and Ashwini K. Nangia*



1351

Supercooled liquid during the evaporation and cooling crystallization of valsartan: a macroscopic observation

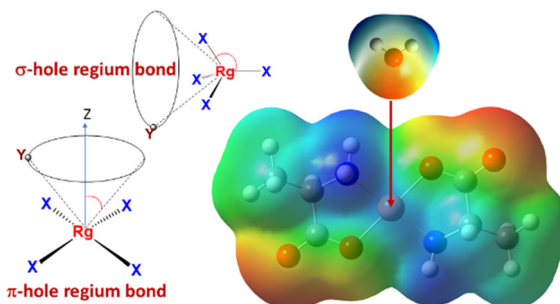
Rongrong Xue, Tuanjia Li, Yingying He, Fenghua Chen* and Wangchuan Xiao*



1359

Are regium bonds directional?

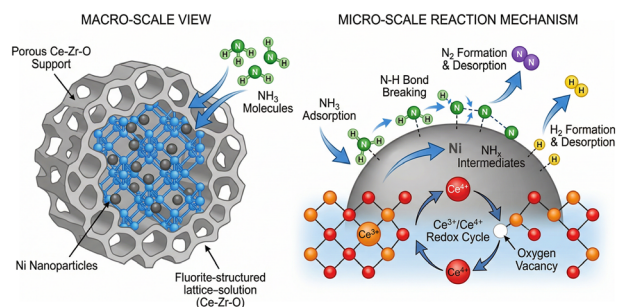
Velina Rani Boro and Binoy K. Saha*



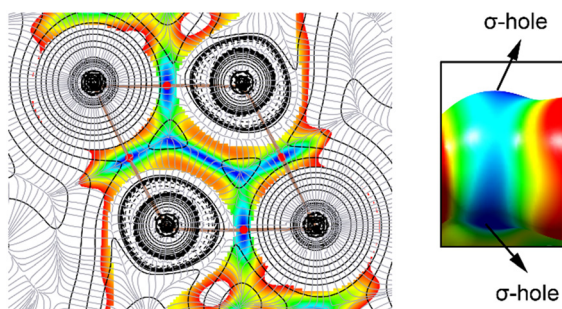
1367

Preparation and ammonia decomposition performance of solid-solution-supported Ni-based catalysts

Xiaoyang Zhu, Binran Yang, Hen Shao and Lianhong Zhang*



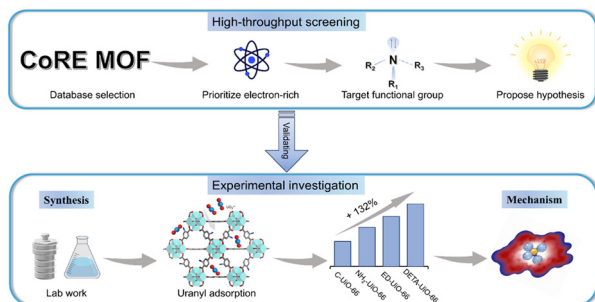
1383



A lead(II) supramolecular coordination polymer, obtained from polydonor *N'*-(amino(pyrazin-2-yl)methylene)thiosemicarbazide, stabilized by tetrel bonds and other non-covalent interactions

Ghodrat Mahmoudi, Isabel Garcia-Santos,* Tamara Iglesias-Pereiro, Alfonso Castiñeiras, Atash V. Gurbanov, Ömer Faruk Tutar, Ennio Zangrando, Elizaveta V. Panova, Antonio Frontera* and Damir A. Safin*

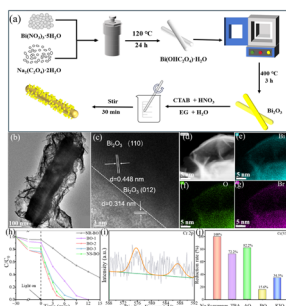
1394



Data-driven synthesis of electron-rich metal-organic frameworks for enhanced U(vi) removal

Chongxiong Duan, Kai Zheng, Yu Liang, Yu Wang, Manqi Liu, Baiming Liang, Zemei Tan, Xuquan Liu, Jinpeng Zhang, Chen Liu, Hongxia Xi, Pengfei Yang* and Xuejiao Sun*

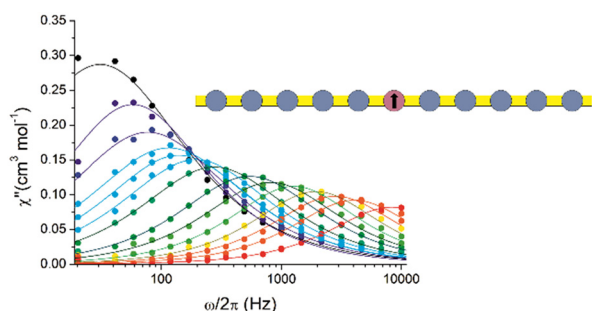
1404



Construction of a α -Bi₂O₃/ α -Bi₂O₃ homojunction for highly efficient photocatalytic reduction of chromium(vi)

Lin Pei Pei, Bo Wang,* Ze Yu Zhou, Pin Song* and Yin Peng*

1412



Single molecule magnet behavior in bis-oxamate one-dimensional coordination polymers: the effect of magnetic dilution

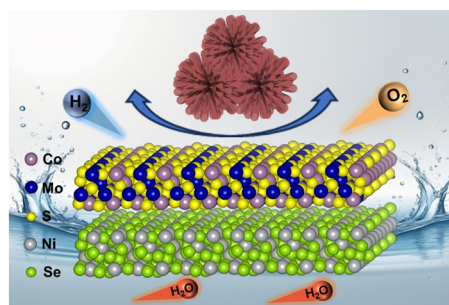
Igor A. V. Maldonado, William S. Fernandes, Thiago M. Cardozo, Maria G. F. Vaz and Rafael A. Allão Cassaro*



1422

Heterostructure design of CoMoS₂/NiSe₂ enabled electric field engineering toward efficient water electrolysis

Xiaodong Cai,* Qian Liao and Danhua Jiao*



1431

Unprecedented 3D-coordination polymeric frameworks of 5-aminoisophthalate with alkaline earth metals (Sr and Ba): catalytic and luminescent properties

Atom Rajiv Singh, Anil Singh Rajpurohit, Aribam Rishikanta Sharma, Madhavan Jaccob, Raju Laishram and Rajkumari Lonibala*

