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 26(1) 1-112 (2024)



Cover Credit line © Floriana Getty **Images**

EDITORIAL

Crystal engineering in Africa

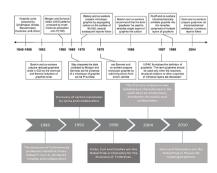
Susan A. Bourne, Delia A. Haynes and Patrice Kenfack Tsobnang



HIGHLIGHT

Durability of S- and N-doped graphene nanoplatelets for electrode performance in solidstate batteries

Vijay Kumar Srivastava, Stefanos Mourdikoudis,* Jalal Azadmanjiri,* Parshant Kumar and Zdeněk Sofer*







At the heart of open access for the global chemistry community

Editor-in-chief

Russell J Cox

Leibniz Universität Hannover, Germany

We stand for:



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



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



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



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

Submit your work now

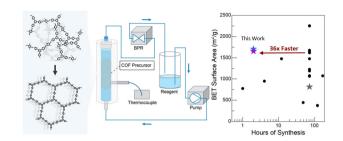
rsc.li/rsc-advances

@RSC_Adv

COMMUNICATION

Covalent organic framework crystallization using a continuous flow packed-bed reactor

Dayanni D. Bhagwandin, John H. Dunlap, Ly D. Tran, Alexander Reidell, Drake Austin, Amelia A. Putnam-Neeb, Morgan Loveday, Rahul Rao, Luke A. Baldwin* and Nicholas R. Glavin*

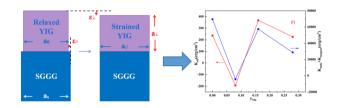


PAPERS

32

Perpendicular magnetic anisotropy and magnetooptical properties of Bi, Mn: YIG epitaxial films

Jiewen Jiang, Yun Dai, Jiamin Shang, Zhen Zhang, Liangbi Su, Maojie Cheng, Dunlu Sun,* A. Stupakiewicz and Anhua Wu*



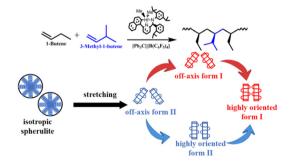
A facile recrystallization strategy for fabrication of nanocrystalline microspheres of sulfatic sodalite with high thermal stability

Xiu-Zhen Xie, Yuanming Pan and Jin-Xiao Mi*



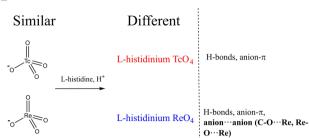
Utilizing 3-methyl-1-butene co-units to tailor phase transition behavior in butene-1 copolymers

Jiazheng Shen, Wei Li,* Ruijun Zhao, Yingzhuo Liu and Zhe Ma*



PAPERS

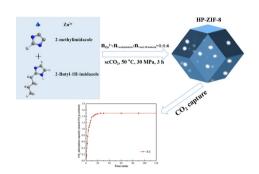
61



What kind of interactions we may get moving from zwitter to "dritter" ions: C-O···Re(O₄) and Re-O···Re(O₄) anion···anion interactions make structural difference between L-histidinium perrhenate and pertechnetate

Anton P. Novikov,* Alexey V. Safonov, Konstantin E. German and Mikhail S. Grigoriev

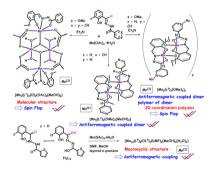
70



Fabrication of hierarchically porous ZIF-8 using a competitive ligand via a one-step method in supercritical CO₂ and its application for CO₂ adsorption

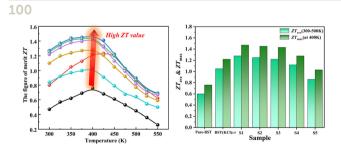
Zhen Li, Bo He and Shaokun Tang*

80



Assembly of Mn^{III} ions into di-, tetra-, deca-nuclear coordination complexes, zero- to three-dimensional molecular frameworks: molecular spin flop to and short-range bulk magnetic spin flop ordering

Jayasree Kumar, Ibtesham Tarannum, Yan-Zhen Zheng,* Saurabh Kumar Singh* and Kartik Chandra Mondal*



Ultralow thermal conductivity and high thermoelectric performance induced by multiscale lattice defects in Cu-doped BST alloys

Yaohui Liu, Yu Tang, Yonggui Tao, Ying Zhang, Lanxian Shen, Wen Ge and Shukang Deng*

CORRECTION

110

Correction: Constructing chiral MOFs by functionalizing 4,2':6',4"-terpyridine with long-chain alkoxy domains: examples of dia nets

Y. Maximilian Klein, Alessandro Prescimone, Mateusz B. Pitak, Simon J. Coles, Edwin C. Constable and Catherine E. Housecroft*