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.

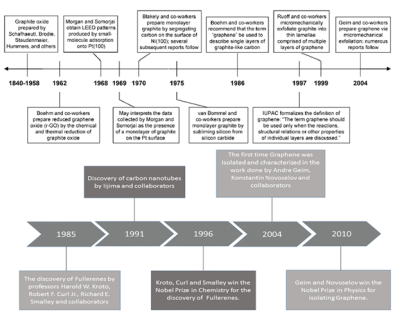
IN THIS ISSUE

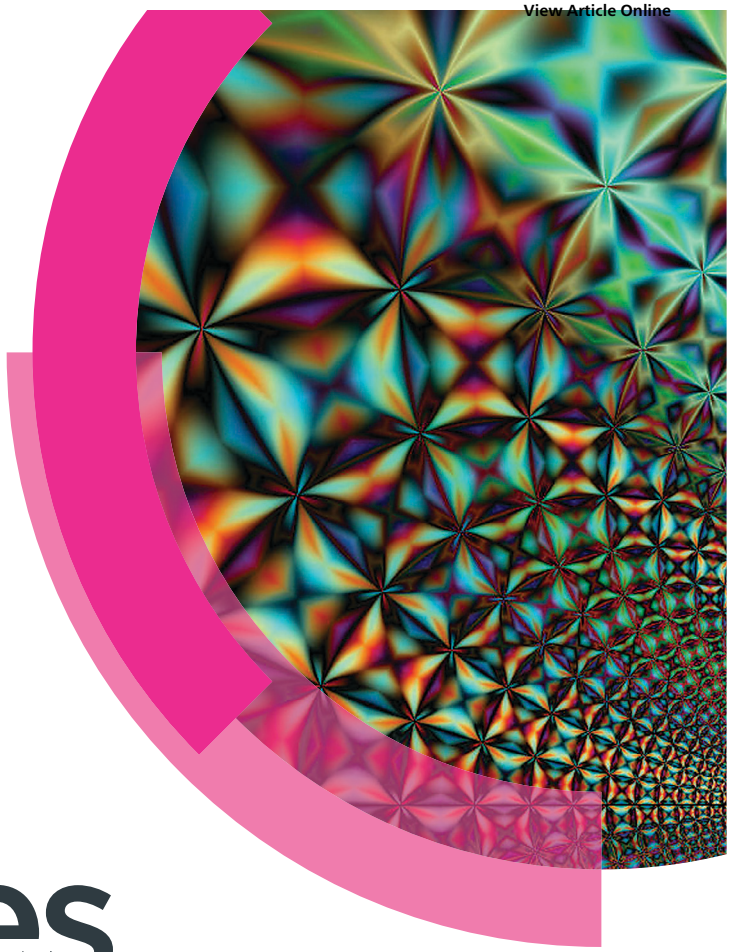
ISSN 1466–8033 CODEN CRECF4 26(1) 1–112 (2024)

Cover
Credit line © Floriana Getty Images

EDITORIAL

HIGHLIGHT





ROYAL SOCIETY OF CHEMISTRY

RSC Advances

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

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

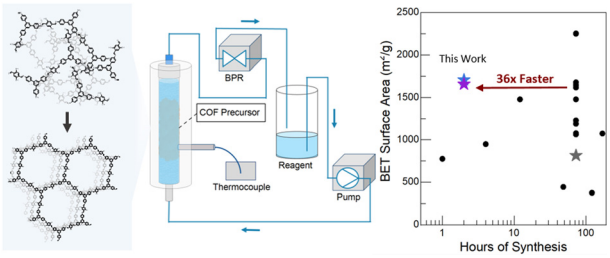
Submit your work now

rsc.li/rsc-advances

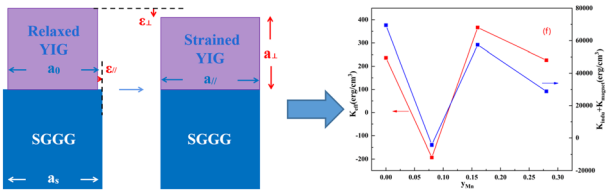
@RSC_Adv

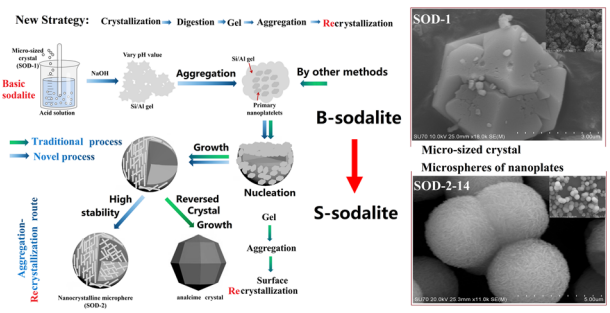
Registered charity number: 207890

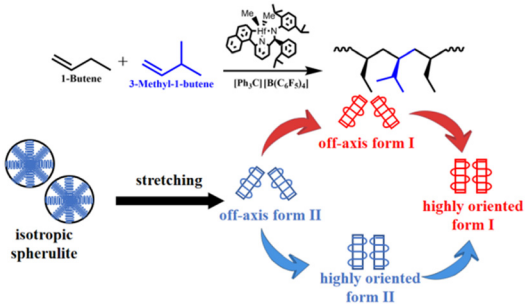
COMMUNICATION



PAPERS

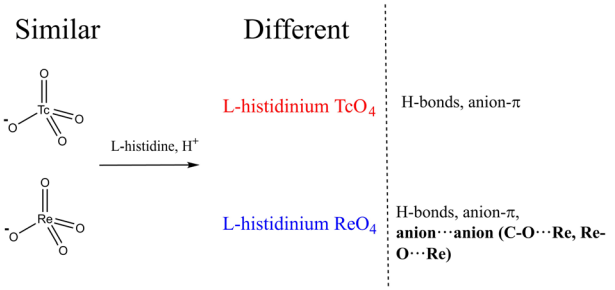






PAPERS

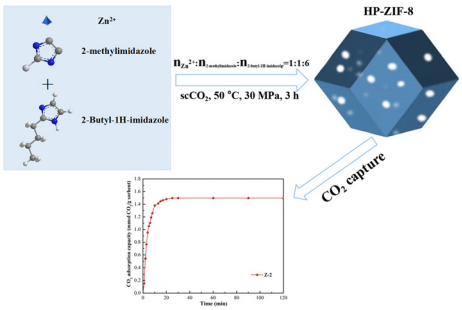
61



What kind of interactions we may get moving from zwitter to "dritter" ions: C–O···Re(O_4) and Re–O···Re(O_4) 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

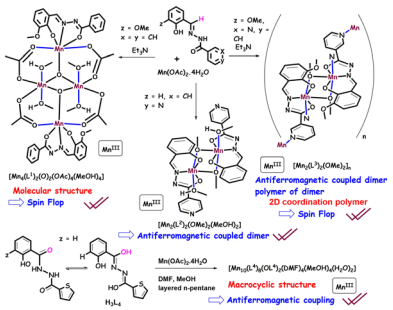
70



Fabrication of hierarchically porous ZIF-8 using a competitive ligand *via* a one-step method in supercritical CO_2 and its application for CO_2 adsorption

Zhen Li, Bo He and Shaokun Tang*

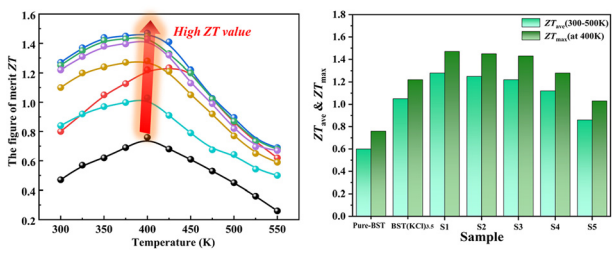
80



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*

100



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*