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



Cover

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EDITORIAL

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Crystal engineering in Africa

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

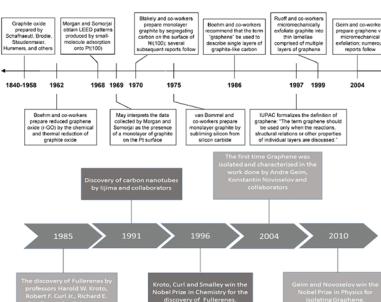


HIGHLIGHT

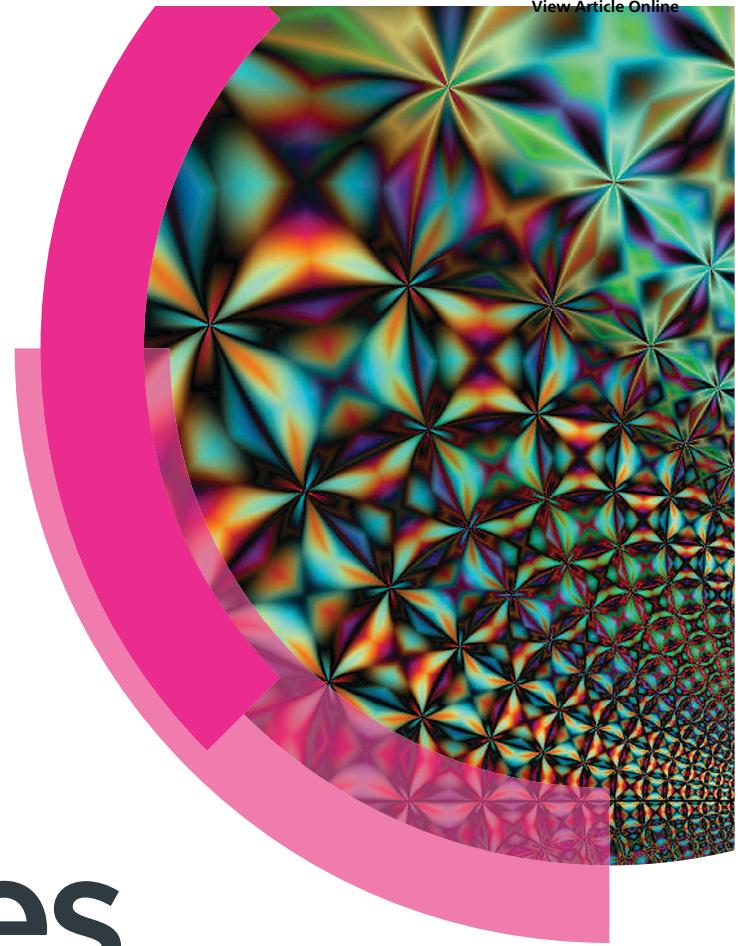
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Durability of S- and N-doped graphene nanoplatelets for electrode performance in solid-state batteries

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



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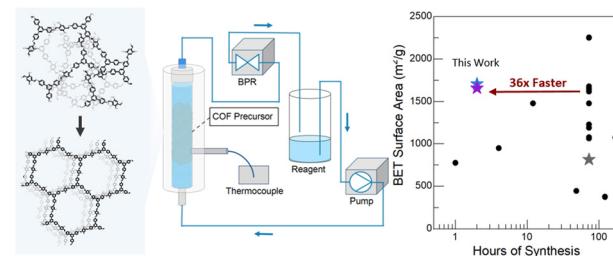
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COMMUNICATION

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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-Neel, Morgan Loveday, Rahul Rao, Luke A. Baldwin* and Nicholas R. Glavin*

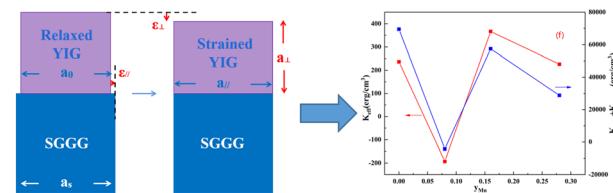


PAPERS

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Perpendicular magnetic anisotropy and magneto-optical properties of Bi_xMn_y:YIG epitaxial films

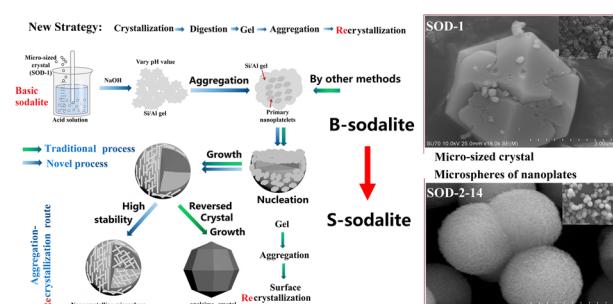
Jiewen Jiang, Yun Dai, Jiamin Shang, Zhen Zhang, Liangbi Su, Maojie Cheng, Dunlu Sun,* A. Stupakiewicz and Anhua Wu*



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

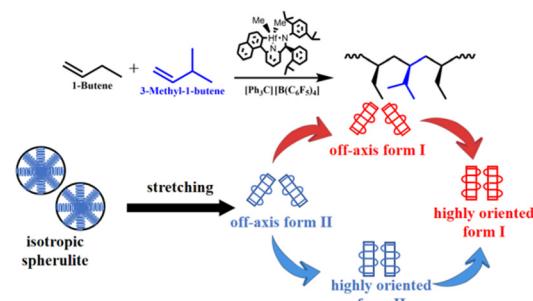
Xiu-Zhen Xie, Yuanming Pan and Jin-Xiao Mi*



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

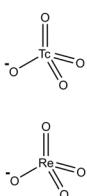
Jiazheng Shen, Wei Li,* Ruijun Zhao, Yingzhuo Liu and Zhe Ma*



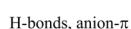
PAPERS

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Different

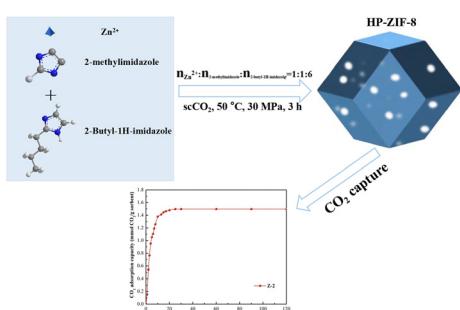


H-bonds, anion- π
H-bonds, anion- π ,
anion- \cdots anion (C-O \cdots Re, Re- \cdots Re)

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

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

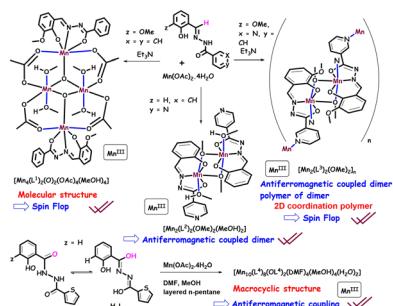
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Fabrication of hierarchically porous ZIF-8 using a competitive ligand *via* a one-step method in supercritical CO₂ and its application for CO₂ adsorption

Zhen Li, Bo He and Shaokun Tang*

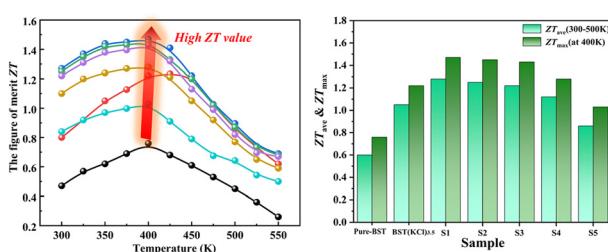
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Assembly of Mn^{III} ions into di-, tetra-, deca-nuclear coordination complexes, zero- to three-dimensional molecular frameworks: molecular spin flop to and short-range bulk magnetic spin flop ordering

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

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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

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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*