

CrystEngComm

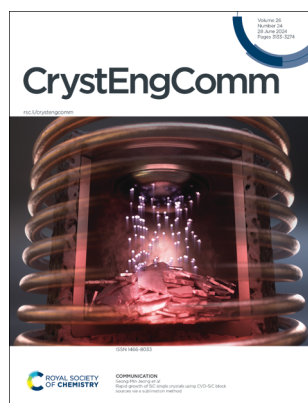
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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(24) 3133-3274 (2024)



Cover

See Seong-Min Jeong *et al.*, pp. 3158-3161. Image reproduced by permission of Seong-Min Jeong from *CrystEngComm*, 2024, 26, 3158.

EDITORIAL

3141

Welcome from the new co-Editors-in-Chief of *CrystEngComm*

Christian J. Doonan and C. Malla Reddy

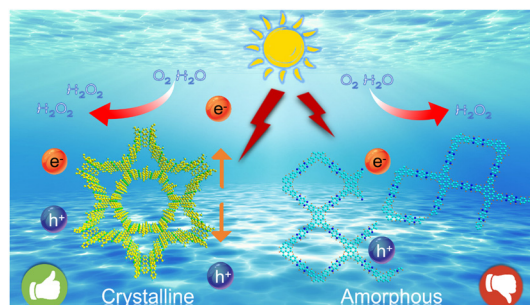


HIGHLIGHT

3143

Advancements in controlling COFs structure for enhanced crystallization properties and self-generated photocatalytic hydrogen peroxide

Xiaojuan Bai,* Rujiao Liu, Bowen Zhu, Xin Liu, Yihan Cao, Jiaqian Dong and Hua Yang



Environmental Science journals

One impactful portfolio for
every exceptional mind

Harnessing the power of interdisciplinary
science to preserve our environment

rsc.li/envsci

Fundamental questions
Elemental answers



Registered charity number: 207890

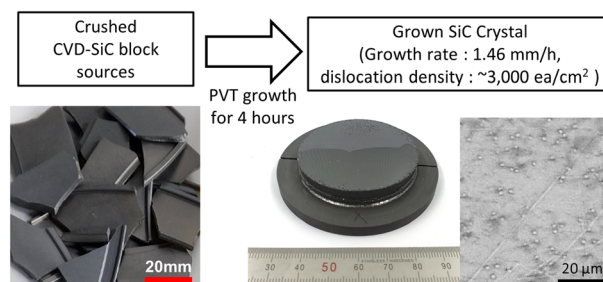


COMMUNICATIONS

3158

Rapid growth of SiC single crystals using CVD-SiC block sources *via* a sublimation method

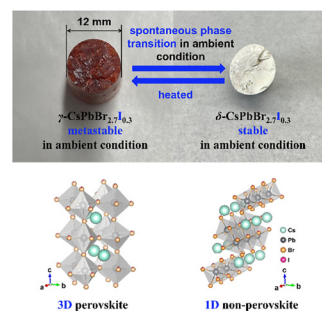
Seong-Min Jeong,* Yong-Hyeon Kim, Ju-Hyeong Sun, Jae-Hyeon Park, Yun-Ji Shin, Si-Young Bae, Chang-Min Kim and Won-Jae Lee



3162

Spontaneous phase transition from 3D perovskite to 1D non-perovskite in CsPbBr_{2.7}I_{0.3}

Meng Shen, Yulin Zhang, Bingliang Cheng,* Wenjuan Ma, Xiaole Huang, Lei Zhang, Zhifang Chai and Wenwen Lin*

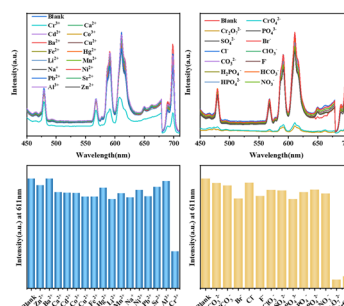


PAPERS

3167

Solvothermal synthesis of KBi₃F₁₀:Eu³⁺ phosphors as selective three-in-one fluorescent probes for Cr³⁺, CrO₄²⁻ and Cr₂O₇²⁻ ion detection

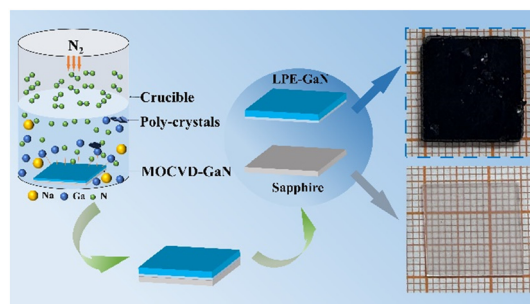
Meifang Liu, Yue Jiang, Huimin Du, Ziwei Zou, Mengtan Ye, Jingyu Chen, Hanying Ren, Jun Yang* and Shanshan Hu*



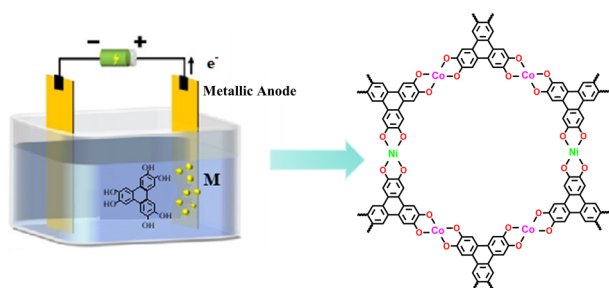
3176

Studying the effect of temperature and pressure on GaN crystals *via* the Na-flux method

Benfa Wang, Lei Liu, Ge Tian, Guodong Wang, Jiaoxian Yu, Qiubo Li, Defu Sun, Xiangang Xu, Lei Zhang* and Shouzhi Wang*



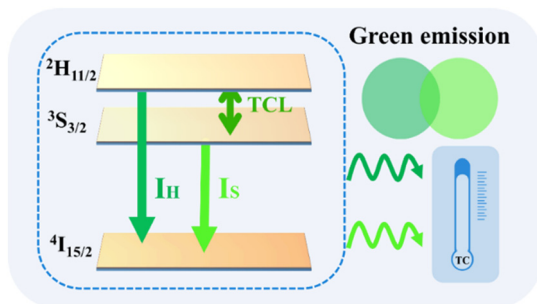
3185



Room temperature and rapid synthesis of two-dimensional bimetallic NiCo-CAT MOFs by an electrochemical strategy for enhancing electrocatalytic oxygen evolution reaction

Wan-Ru Yan, Yu Xue, Mei-Chen Liu, Xiu Qiao, Chang-Yi Jing, Yue Yu, Xiao-Chun Yan, Jin-Zhi Wei, Hong Dong* and Feng-Ming Zhang

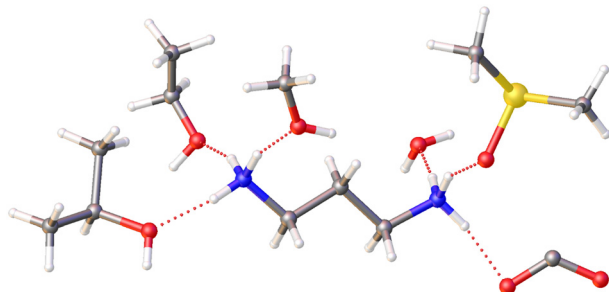
3194



Synthesis and luminescence properties of Yb³⁺/Er³⁺-doped Bi₂(MoO₄)_{3-z}(WO₄)_z phosphors for optical thermometry

Huimin Du, Yanyang Li, Mengran Ouyang, Meifang Liu, Shanshan Hu* and Jun Yang*

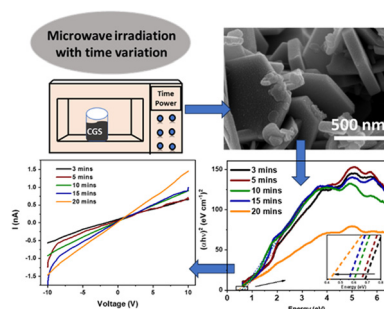
3206



New diclofenac salts with the dense hydrogen bond donor propane-1,3-diaminium

Jaxon R. Breckell, Luke Conte, Michael W. Potts, Pradnya S. Sawant, Raymond J. Butcher, Beena K. Vernekar* and Christopher Richardson*

3217



2D hexagonal CuGaSe₂ nanosheets by a microwave assisted synthesis method: photoresponse and optical study for optoelectronic applications

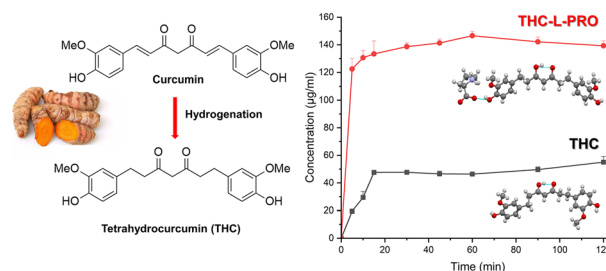
P. Priyadarshini, S. Senapati,* Prabhukrupa C. Kumar, D. Alagarasan, Rojalin Sahu and R. Naik*



3232

New solid forms of tetrahydrocurcumin with improved solubility

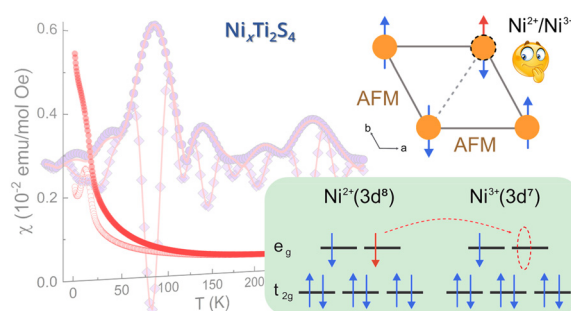
Fanyu Tian, Mengyuan Xia, Hao Wang, Bingrui Zhang, Zhenfeng Ding, Xiaoyi Rong, Bingqing Zhu* and Xuefeng Mei*



3240

Local mechanism for magnetoelastic coupling and magnetic frustration in high-pressure synthesized $\text{Ni}_x\text{Ti}_2\text{S}_4$ intercalated sulfide

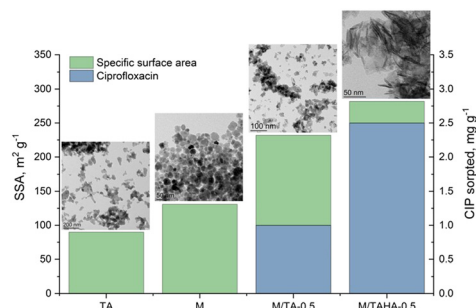
R. S. Silva Jr., J. E. Rodrigues, J. Gainza, F. Serrano-Sánchez, A. Skorynina, N. M. Nemes, J. L. Martínez and J. A. Alonso*



3250

Humic acids-modified mesoporous silica encapsulating magnetite: crystal and surface characteristics

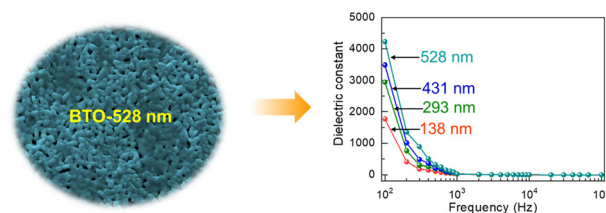
Artur Dzeranov,* Denis Pankratov, Lyubov Bondarenko, Lyudmila Telegina, Gulzhian Dzhardimalieva, Daniel Saman and Kamila Kydralieva



3263

Investigation of phase growth and the effect of thickness on bismuth titanate thin films for microelectronic device applications

P. Thiruramanathan, A. Marikani, S. Manjula, Sutha Sadhasivam, S. Saravanan, Chinna Bathula, Sejoon Lee, Youngmin Lee, Deuk Young Kim and Sankar Sekar*



RETRACTION

3272

Retraction: L-Phenylalanine L-phenylalaninium bromide – a new nonlinear optical material

R. Surekha,* R. Gunaseelan, P. Sagayaraj and K. Ambujam

