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

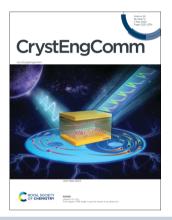
ISSN 1466-8033 CODEN CRECF4 26(17) 2221-2334 (2024)



Cover See Edita Garskaite et al... pp. 2233-2240. Image reproduced by permission of Edita Garskaite and Dietrich Buck from CrystEngComm, 2024, 26,

2233. Cover artwork designed

by Dietrich Buck.

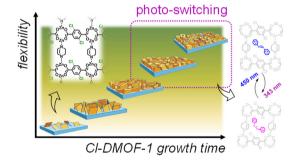


Inside cover See Lingyan Xu et al., pp. 2241-2247. Image reproduced by permission of Lingyan Xu from CrystEngComm, 2024, 26, 2241.

COMMUNICATION

Orthogonal stimulation of structural transformations in photo-responsive MOF films through linker functionalization

Sumea Klokic, Benedetta Marmiroli, Denys Naumenko, Giovanni Birarda, Simone Dal Zilio, Miriam de J. Velásquez-Hernández, Paolo Falcaro, Lisa Vaccari and Heinz Amenitsch*

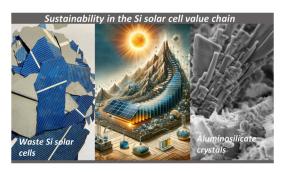


PAPERS

2233

Assessing aspects of solution-based chemical synthesis to convert waste Si solar cells into nanostructured aluminosilicate crystals

Edita Garskaite,* Math Bollen, Enock Mulenga, Mathis Warlo, Glenn Bark, Espen Olsen, Dalia Brazinskiene, Denis Sokol, Dietrich Buck and Dick Sandberg





Royal Society of Chemistry approved training courses

Explore your options. Develop your skills. Discover learning that suits you.

Courses in the classroom, the lab, or online

Find something for every stage of your professional development. Search our database by:

- subject area
- location
- event type
- skill level

Members get at least 10% off

Visit rsc.li/cpd-training





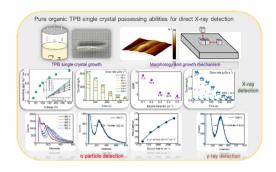
Registered charity number: 207890

PAPERS

2241

Pure organic TPB single crystal for direct X-ray detection

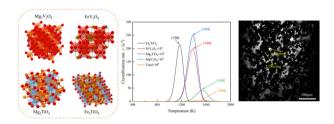
Kai Jiang, Lingyan Xu,* Rongjin Shang, Lu Liang, Yingming Wang, Zhentao Qin and Wanqi Jie



2248

Crystallization behaviour and growth mechanisms of spinel crystals in vanadium slag with high MgO content

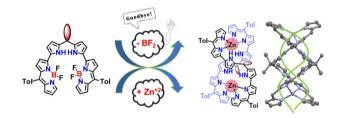
Jiang Diao,* Haoran Tao, Zhiqiu Lai, Yiyu Qiu, Lian Chen, Hongyi Li and Bing Xie



2259

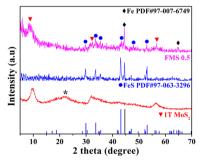
Synthesis, structure, and properties of helical bis-Zn(II) complexes of hexapyrrolic ligands

Pinky Chauhan, Poornenth Pushpanandan and Mangalampalli Ravikanth*



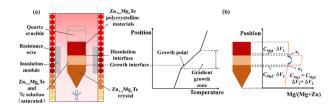
FeS nanosheets assembled with 1T-MoS₂ nanoflowers on iron foam for efficient overall water splitting

Bo Feng, Shuting Jin, Jihui Lang, Jian Wang, Jie Hua, Yunfei Sun, Wei Zhang, Jin Wang and Jian Cao*



PAPERS

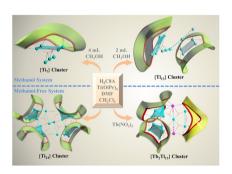
2277



$Zn_{1-x}Mg_xTe$ and P: $Zn_{1-x}Mg_xTe$ (x = 0.06-0.25) bulk crystals grown by travelling Te solution method

Yuchen Song, Tingting Zhang, Jiahui Lv, Guorong Zhang, Changyou Liu,* Tao Wang, Gangqiang Zha and Wangi Jie

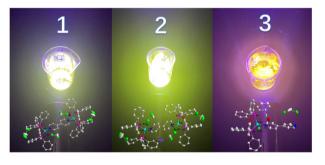
2287



Solvent-polarity-controlled assembly of polynuclear titanium-calixarene complexes: constructing isolated {Ti₇}, {Ti₁₃}, {Ti₂₄} and {Tb₂Ti₁₃} clusters

Yanyan Wang, Ying Xiong* and Wuping Liao*

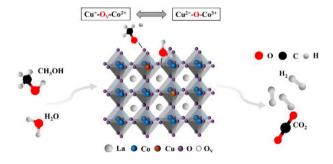
2297



Synthesis and luminescent properties of three excellent yellow emissive Cu(ı) complexes based on the diphosphine ligand and the diimine ligand

Wen-Long Mou, Cheng-Jie Gao, Zi-Xi Li, Si-Jie Fan, Chuan-Bin Hou, Jing-Tong Zhao, Shuai Zhang, Zhong-Feng Li, Hong-Liang Han, Chun-Bo Duan, Guo Wang* and Qiong-Hua Jin*

2306



Modulating the active phase in perovskite LaCoO₃ with B-site doping of Cu for efficient methanol reforming to produce hydrogen

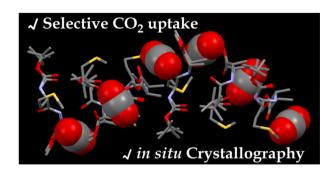
Weiling Zhang, Peiwei Han, Juan Li, Zizhen Niu, Guowei Wang, Nan Wang, Xiangnan Li, Lyumeng Ye* and Xinjun Li*

PAPERS

2314

Thermal fluctuation-induced selective CO₂ uptake of seemingly nonporous N,C-protected dipeptide crystals as elucidated by in situ X-ray crystallographic analysis

Kazuaki Yamanaka, Ryusei Oketani, Yuya Mori, Takashi Sato, Seiji Tsuzuki, Hiroki Takahashi and Hirohito Tsue*



2322

The structural evolution of CL-20-based energetic host-guest solvates at decomposition temperature according to the perceptions of THz spectroscopy

Lu Shi,* XiaoHui Duan and Hongzhen Li

