

# CrystEngComm

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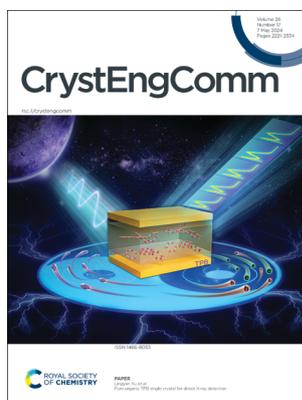
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## IN THIS ISSUE

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



**Cover**  
See Edita Garskaite *et al.*, pp. 2233–2240.  
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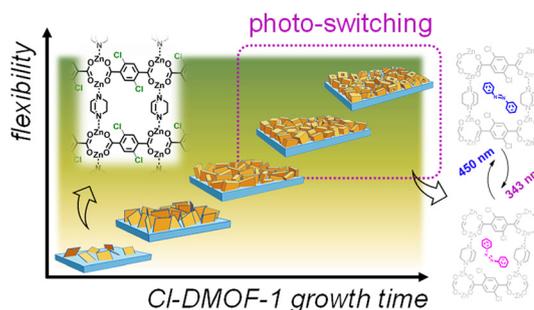
**Inside cover**  
See Lingyan Xu *et al.*, pp. 2241–2247.  
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## COMMUNICATION

2228

### 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

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### 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



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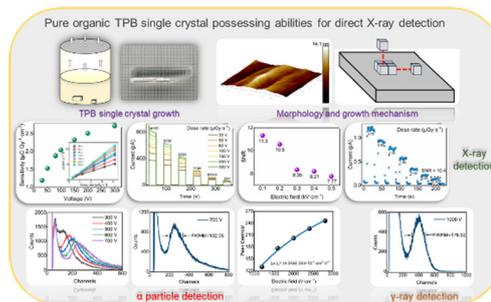
**SAVE  
10%**



2241

### Pure organic TPB single crystal for direct X-ray detection

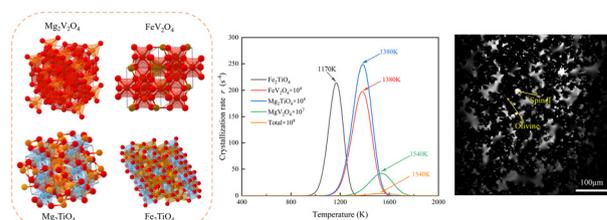
Kai Jiang, Lingyan Xu,\* Rongjin Shang, Lu Liang, Yingming Wang, Zhentao Qin and Wanqi Jie



2248

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

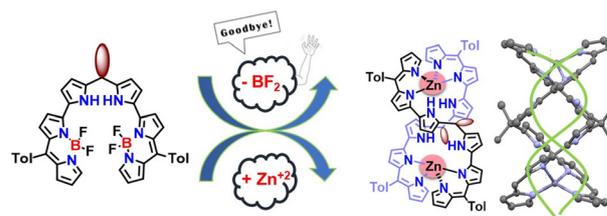
Jiang Diao,\* Haoran Tao, Zhiqiu Lai, Yiyu Qiu, Lian Chen, Hongyi Li and Bing Xie



2259

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

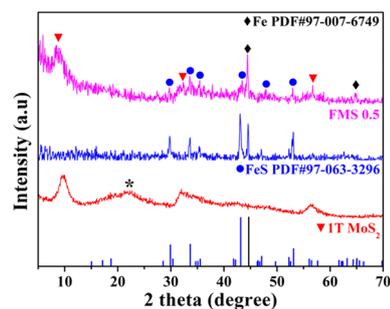
Pinky Chauhan, Poornenth Pushpanandan and Mangalampalli Ravikanth\*



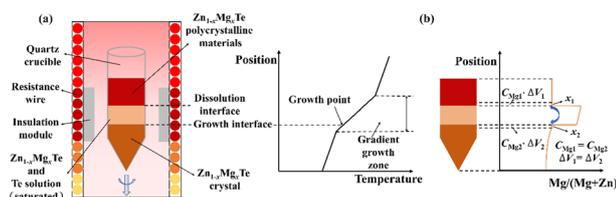
2269

### FeS nanosheets assembled with 1T-MoS<sub>2</sub> 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\*



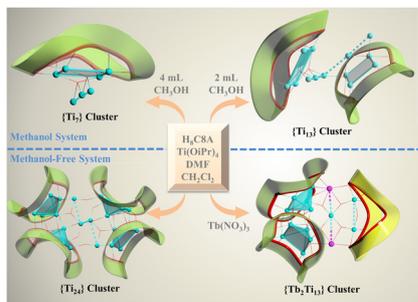
2277



### Zn<sub>1-x</sub>Mg<sub>x</sub>Te and P:Zn<sub>1-x</sub>Mg<sub>x</sub>Te ( $x = 0.06-0.25$ ) bulk crystals grown by travelling Te solution method

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

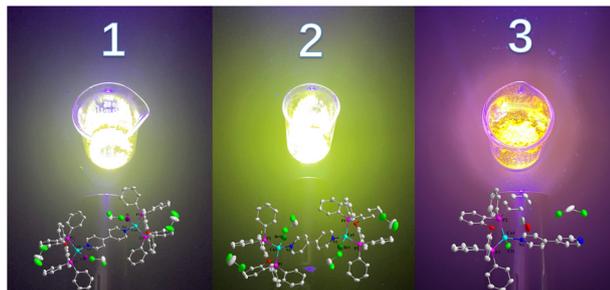
2287



### Solvent-polarity-controlled assembly of polynuclear titanium-calixarene complexes: constructing isolated {Ti<sub>7</sub>}, {Ti<sub>13</sub>}, {Ti<sub>24</sub>} and {Tb<sub>2</sub>Ti<sub>13</sub>} clusters

Yanyan Wang, Ying Xiong\* and Wuping Liao\*

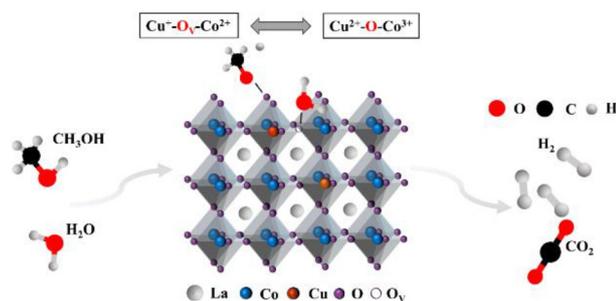
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### Synthesis and luminescent properties of three excellent yellow emissive Cu(I) complexes based on the diposphine ligand and the diimine ligand

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 LaCoO<sub>3</sub> with B-site doping of Cu for efficient methanol reforming to produce hydrogen

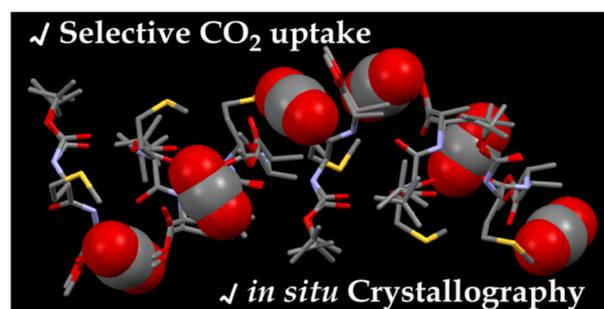
Weiling Zhang, Peiwei Han, Juan Li, Zizhen Niu, Guowei Wang, Nan Wang, Xiangnan Li, Lyumeng Ye\* and Xinjun Li\*



2314

### Thermal fluctuation-induced selective CO<sub>2</sub> 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

