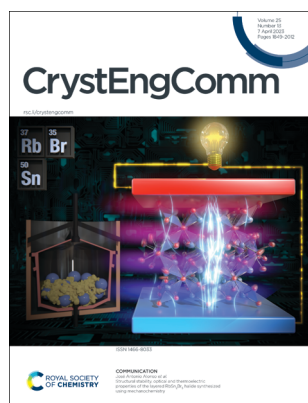


## IN THIS ISSUE

ISSN 1466-8033 CODEN CRECF4 25(13) 1849–2012 (2023)



### Cover

See José Antonio Alonso et al., pp. 1857–1868.

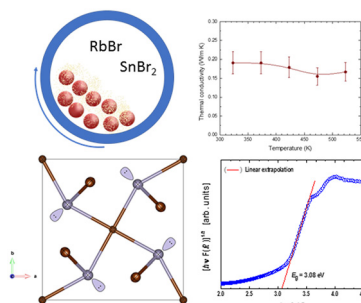
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## COMMUNICATIONS

1857

### Structural stability, optical and thermoelectric properties of the layered $\text{RbSn}_2\text{Br}_5$ halide synthesized using mechanochemistry

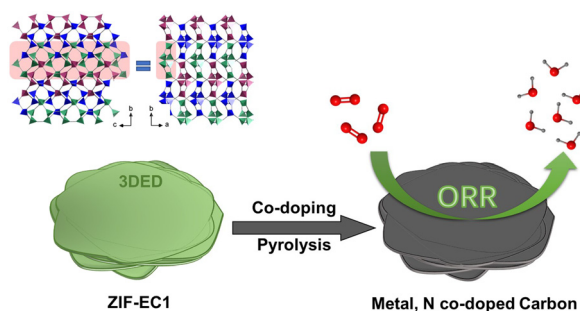
Carmen Abia, Carlos A. López, Javier Gainza, João Elias F. S. Rodrigues, Brenda Fragoso, Mateus M. Ferrer, Norbert M. Nemes, Oscar J. Dura, José Luis Martínez, María Teresa Fernández-Díaz and José Antonio Alonso\*



1869

### A bimetallic 3D interconnected metal–organic framework with 2D morphology and its derived electrocatalyst for oxygen reduction

Zijia Bao, Guojun Zhou, Xinrong Liu, Yuxin Peng, Zhehao Huang\* and Haoquan Zheng\*



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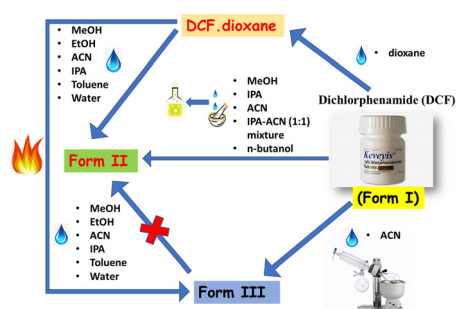


## COMMUNICATIONS

1874

## Exploration and investigation of various solid forms of an anti-glaucoma drug – dichlorophenamide

Ananya Kar, Lopamudra Giri, Gowtham Kenguva, Smruti Rekha Rout and Rambabu Dandela\*

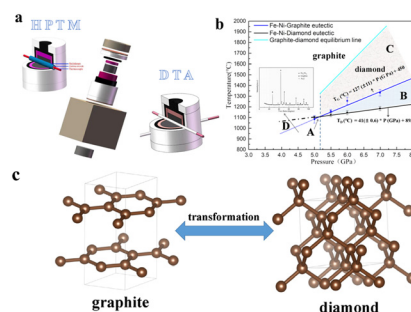


## PAPERS

1884

## Graphite/diamond transformation mechanism under the action of an iron-based catalyst

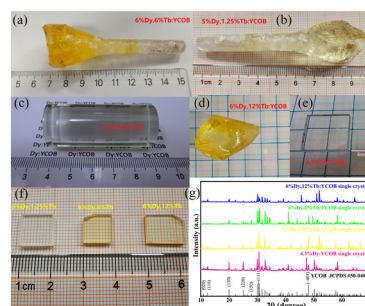
Junpu Wang, Yi Tian, Yuzhu Su, Xiaojun Xiang, Li Zhou, Mengyang Huang, Lu Zhang and Duanwei He\*



1894

Preparation and spectral analysis of 4.3%Dy:YCa<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> and 5%Dy,1.25%Tb:YCa<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> crystals for potential use in solid state yellow lasers

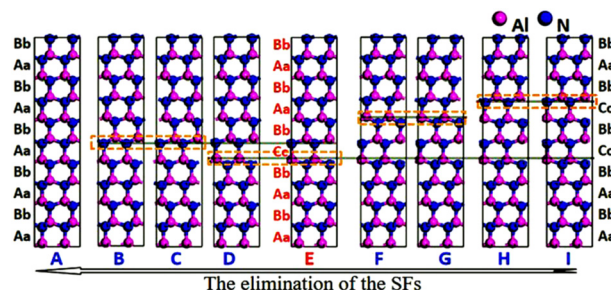
Hu Zhou, Zhigang Sun, Fupiao Wang, Yunlin Chen\* and Yanqing Zheng\*



1903

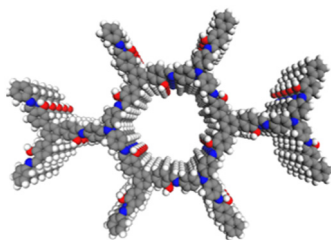
## The stacking fault annihilation in a-plane AlN during high-temperature annealing

Xiaojuan Sun,\* Jiaen Sui, Jianwei Ben, Hang Zang, Ke Jiang, Shanli Zhang, Shunpeng Lv, Zhiming Shi, Tong Wu and Dabing Li\*



## PAPERS

1910

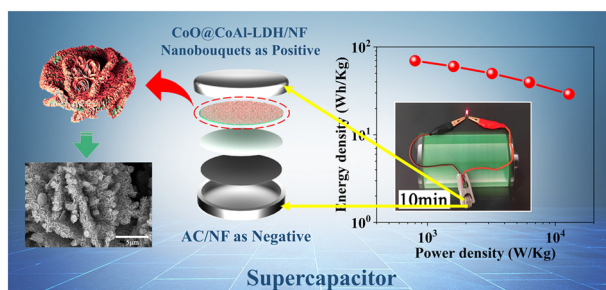


**Porous and Stable COFs  
High CO<sub>2</sub> and I<sub>2</sub> Uptake**

**Stable and microporous covalent organic frameworks *via* weak interactions for gas uptake**

Zhitao Wang,\* Xiu-Mei Li and Hui Li\*

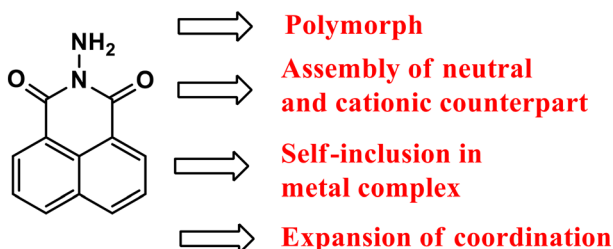
1915



**A high-performance asymmetric supercapacitor device based on CoO@CoAl-LDH hierarchical 3D nanobouquet arrays**

Yuan Song, Qiang Shen,\* Guo-Xiang Pan,\* Chao Ye, Yi-Fan Zhang and Lin Song

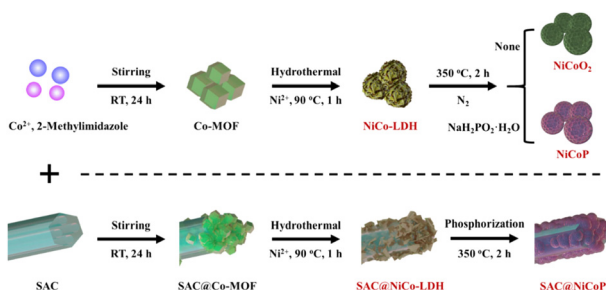
1928



**Polymorphs, ionic cocrystal and inclusion complex of *N*-amino-1,8-naphthalimide**

Jagajiban Sendh and Jubaraj B. Baruah\*

1941



**Crystalline phase transformation of Co-MOF derivatives on ordered mesoporous carbons for high-performance supercapacitor applications**

Chuan Jing,\* Jinyu Ma, Qing Sun, Yanhong Li, Xiao Tang, Faling Ling,\* Yongjie Wang, Wendong Zhang, Xianju Zhou and Yuxin Zhang



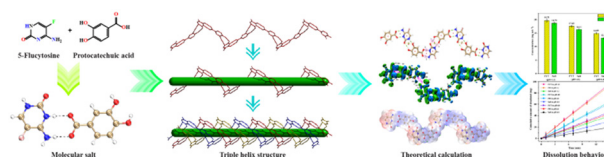


## PAPERS

1951

### Salification-driven strategy toward the hydrophobic molecular salt of the antifungal drug 5-fluorocytosine and protocatechuic acid with triple-helix structure offers an innovative insight for conquering adverse drug reactions

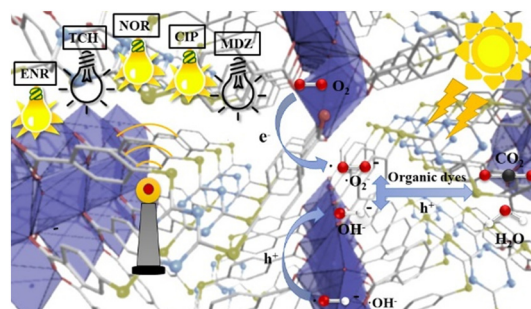
Fan-Zhi Bu, Yue-Ming Yu, Lin-Lin Zhang, Cui-Wei Yan,\*  
Zhi-Yong Wu and Yan-Tuan Li\*



1965

### A zinc-based metal–organic framework with a triazine moiety: effective detection of antibiotics and photodegradation dyes in aqueous solution

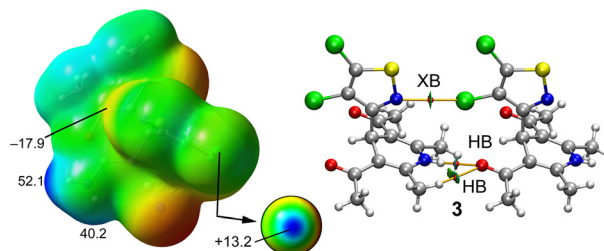
Xueyi Chen, Geng Tan, Wanyu Chen, Jiaming Chang,  
Yuanmeng Yue, Yameng Li, Ng Seik Weng, Lilei Zhang\*  
and Xun Feng\*



1976

### Synthesis, X-ray characterization and DFT calculations of a series of 3-substituted 4,5-dichloroiso-thiazoles

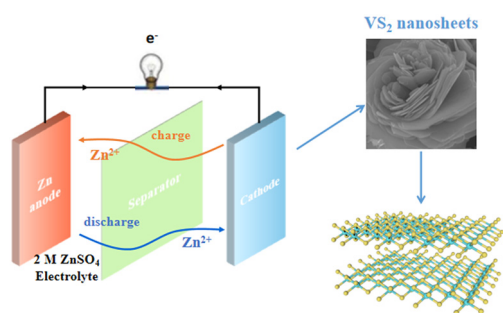
Irina A. Kolesnik, Vladimir I. Potkin, Mikhail S. Grigoriev,  
Anton P. Novikov, Rosa M. Gomila,  
Alexandra G. Podrezova, Vadim V. Brazhkin,  
Fedor I. Zubkov\* and Antonio Frontera\*



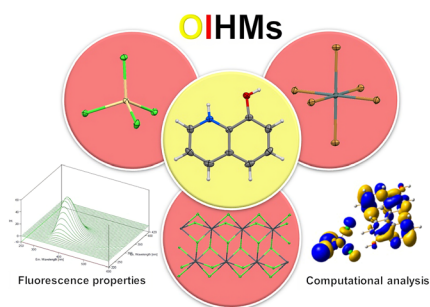
1986

### Rose-shaped VS<sub>2</sub> nanosheets as cathode materials for rechargeable zinc ion batteries

Shiqi Zhao, Yi Liu and Xiang Wu\*



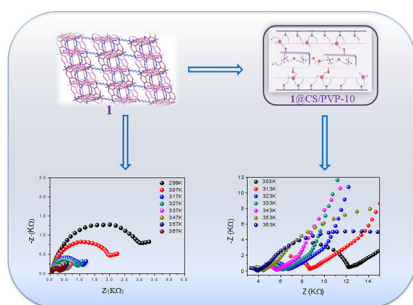
1993



### On structural factors determining the nature of the fluorescent properties of OIHMs based on 8-hydroxyquinoline

Marta Bogdan,\* Tomasz Sierański, Marcin Świątkowski and Agata Trzęsowska-Kruszyńska

2003



### A Cr(III) supramolecular network composite membrane with high water stability and proton conductivity

Shu-Fang Zhou, Hong-Jie Zhang, Chen-Xi Zhang\* and Qing-Lun Wang\*

