

# CrystEngComm

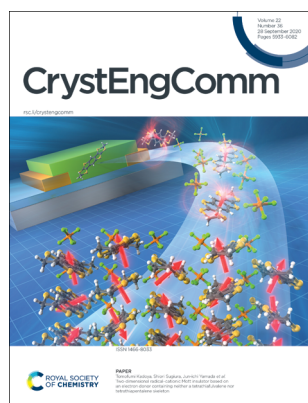
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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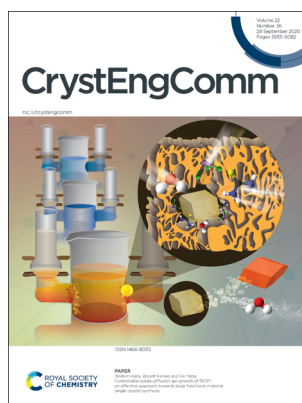
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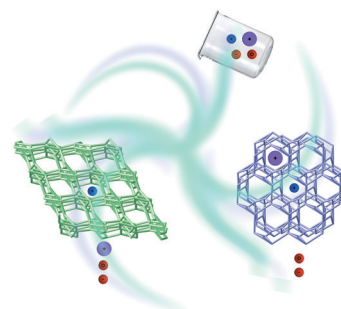
**Inside cover**  
See Ibrahim Hany, Bryant Kanies and Ge Yang, pp. 5954–5960. Image reproduced by permission of Jie Sun. The authors would like to thank Ms. Jie Sun, a visual arts specialist at North Carolina State University, for producing the cover artwork design

## COMMUNICATIONS

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### Structural tuning of Zn(II)-MOFs based on pyrazole functionalized carboxylic acid ligands for organic dye adsorption

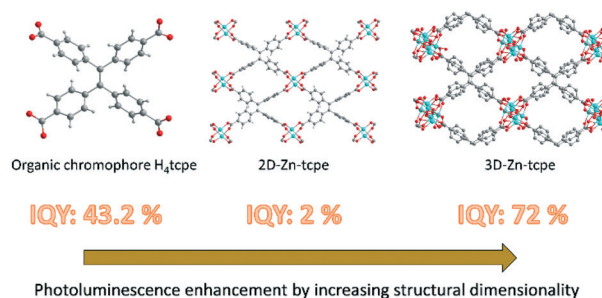
Xiao-Ting Liu, Si-Si Chen, Si-Miao Li, Hong-Xiang Nie, Yao-Qing Feng, Yi-Ning Fan, Mei-Hui Yu,\* Ze Chang\* and Xian-He Bu



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### Enhanced fluorescence by increasing dimensionality: a novel three-dimensional luminescent metal-organic framework with rigidified ligands

Yuhan Lin, Liang Yu, Hao Wang\* and Jing Li\*



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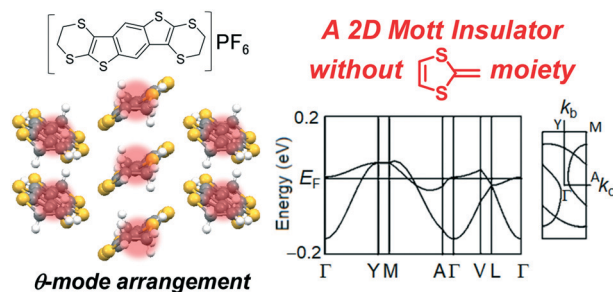
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## Two-dimensional radical-cationic Mott insulator based on an electron donor containing neither a tetrathiafulvalene nor tetrathiapentalene skeleton

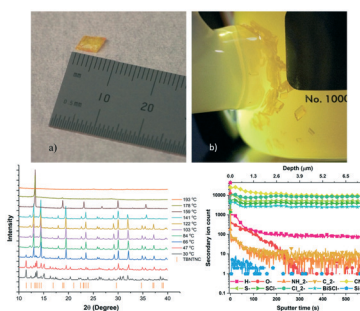
Tomofumi Kadoya,\* Shiori Sugiura,\* Keishiro Tahara, Toshiki Higashino, Kazuya Kubo, Takahiko Sasaki, Kazuo Takimiya and Jun-ichi Yamada\*



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## Controllable solute-diffusion gel-growth of BCHT: an effective approach towards large functional material single crystal synthesis

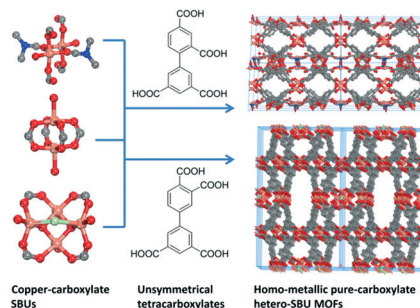
Ibrahim Hany, Bryant Kanies and Ge Yang\*



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## Construction and selective gas adsorption properties of two heteroSBU MOFs based on unsymmetrical tetracarboxylate linkers

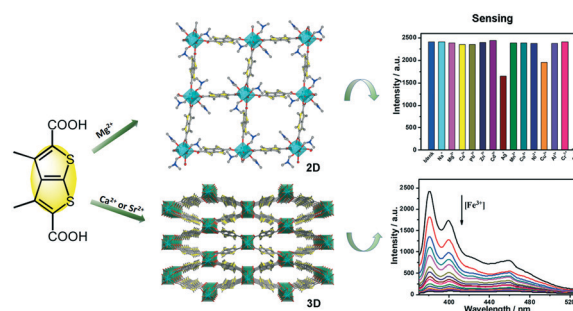
Tingting Xu, Lihui Fan, Ping Zhou, Zhenzhen Jiang, Haonan Chen, Huangyan Lu and Yabing He\*



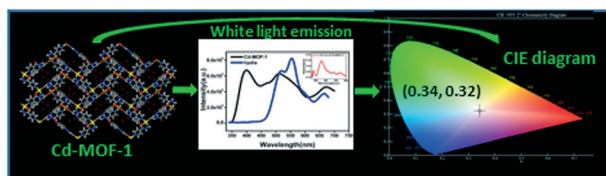
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## Novel alkaline earth metal-organic frameworks with thiophene groups for selective detection of $\text{Fe}^{3+}$

Jun Yao, Yan-E Liu, Li-Bo Yang, Ai-Na Dou, Cheng-Fu Hou, Quan-Qing Xu, Bo Huang\* and Ai-Xin Zhu\*



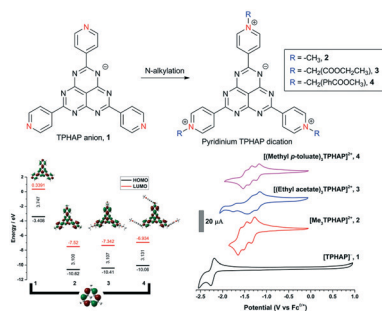
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### Luminescent Cd<sup>II</sup> metal-organic frameworks based on isoniazid using a mixed ligand approach

Ahmad Husain,\* Pooja Rani, Alisha, Ananay Sharma, Tuhina Mondal, Shyamal K. Saha, K. K. Bhasin, Manoj Trivedi and Girijesh Kumar\*

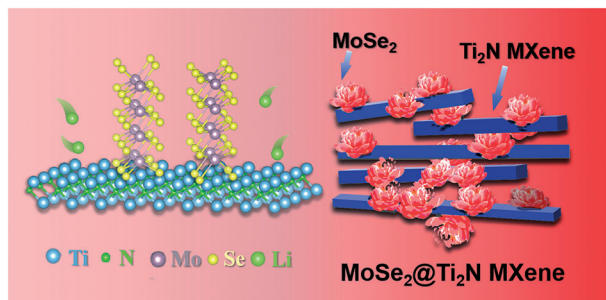
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### Pyridinium modification of a hexaazaphenylene skeleton: structure and spectroelectrochemical analysis

Krittanon Deekamwong, Pavel M. Usov, Hiroyoshi Ohtsu and Masaki Kawano\*

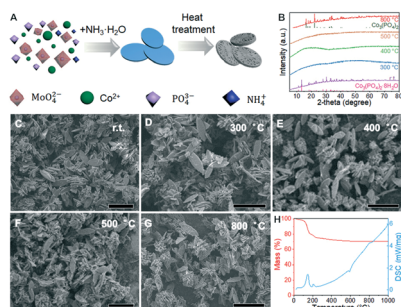
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### Interfacial superassembly of MoSe<sub>2</sub>@Ti<sub>2</sub>N MXene hybrids enabling promising lithium-ion storage

Hui Zong, Le Hu, Zhenguo Wang, Ke Yu,\* Shijing Gong and Ziqiang Zhu

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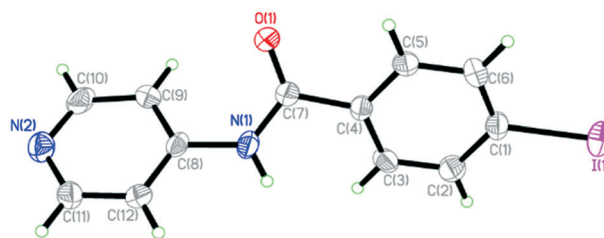
Mengsi Cheng, Hongzhi Wang, Huichao Liu, Jiali Yu, Guangtao Cong, Chunyan Hu, Yankun Huang, Jiatao Zhang, Muwei Ji,\* Caizhen Zhu\* and Jian Xu

## PAPERS

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**The combination of halogen and hydrogen bonding: a versatile tool in coordination chemistry**

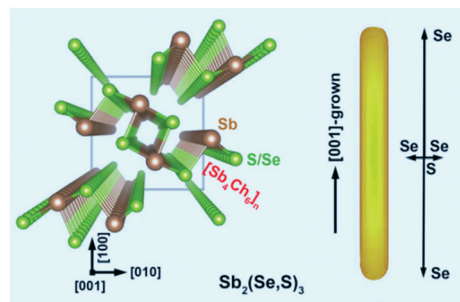
Lucia González, Sara Graus, Rosa M. Tejedor, Anjana Chanthapally, José Luis Serrano and Santiago Uriel\*



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**Selenium and sulfur inhomogeneity in free-standing ternary  $\text{Sb}_2(\text{Se,S})_3$  alloyed nanorods**

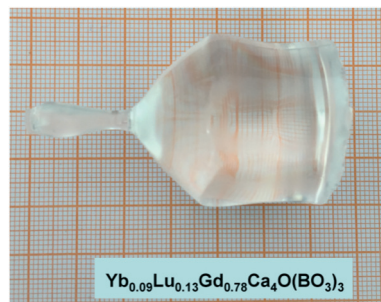
Junli Wang,\* Fan Guan, Lijun Zhao, Longhua Li, Junhao Zhang and Tingting Wang\*



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**Growth, spectroscopic properties and efficient laser action of an  $\text{Yb}_{0.09}\text{Lu}_{0.13}\text{Gd}_{0.78}\text{Ca}_4\text{O}(\text{BO}_3)_3$  crystal**

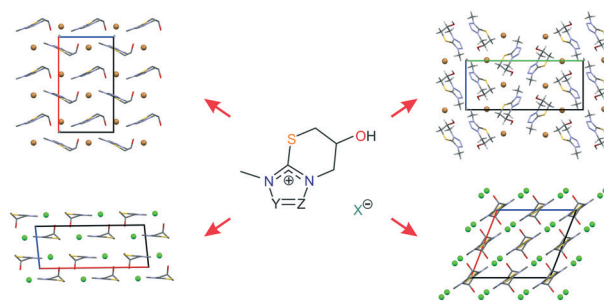
Fenfen Liu, Liang Dong, Junxian Chen, Shuxuan Cao, Honghao Xu and Junhai Liu\*



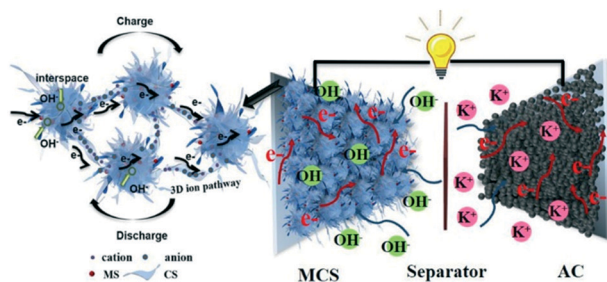
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**2-Mercaptoimidazolium halides: structural diversity, stability and spontaneous racemisation**

Doris E. Braun,\* Martin Lampl, Volker Kahlenberg, Klaus Wurst, Herwig Schottenberger, Michael Hummel and Ulrich J. Griesser



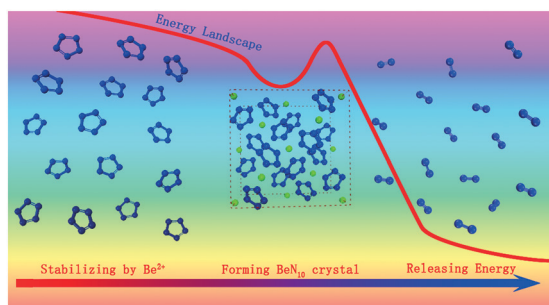
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### Neuron-like hierarchical manganese sulfide@Cu<sub>2</sub>S core/shell arrays on Ni foam as an advanced electrode for an asymmetric supercapacitor

Hang He, Xijia Yang,\* Liying Wang,\* Xueyu Zhang, Xuesong Li and Wei Lü

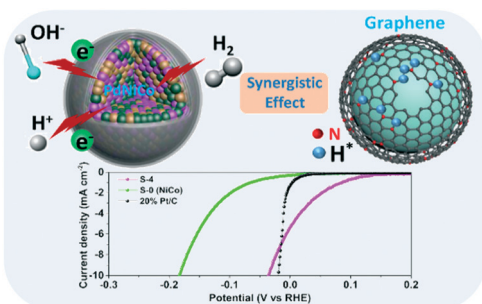
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### Prediction of stable energetic beryllium pentazolate salt under ambient conditions

Zhixiu Wang, Tao Yang, Bingchao Yang and Wencai Yi\*

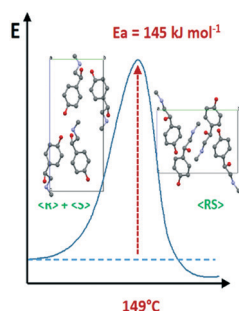
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### MOF-derived PdNiCo alloys encapsulated in nitrogen-doped graphene for robust hydrogen evolution reactions

Shihao Xu, Fan Yang, Shuai Han, Shudong Zhang,\* Qiang Wang\* and Changlong Jiang\*

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### *p*-Synephrine enantiomers: binary phase diagram, crystal structure and kinetic stability of a metastable conglomerate monitored by nonlinear optics

Veronica Ianno, Simon Clevers, Philippe Négrier, Valérie Dupray, Gérard Coquerel and Philippe Espeau\*