

## IN THIS ISSUE

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### Cover

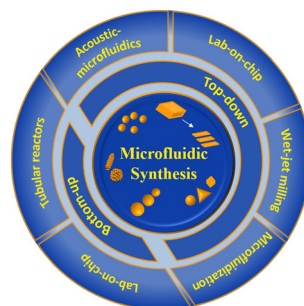
See V. Vinay K. Doddapaneni, Chih-hung Chang *et al.*, pp. 5606–5628.  
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## HIGHLIGHT

5606

### Recent advances in microfluidics-enabled controlled reaction, assembly and exfoliation of inorganic nanomaterials

V. Vinay K. Doddapaneni, Alvin Chang, Ho-Young Jun, Chang-Ho Choi,\* Zhenxing Feng and Chih-hung Chang\*

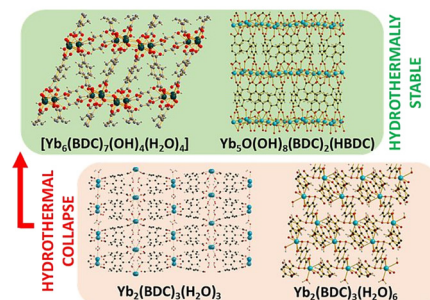


## PAPERS

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### Optimised synthesis and further structural diversity of ytterbium benzene-1,4-dicarboxylate MOFs

Thomas W. Chamberlain, Yasmine, Claire T. Coulthard, Guy J. Clarkson, Volkan Degirmenci, Yuni K. Krisnandi and Richard I. Walton\*



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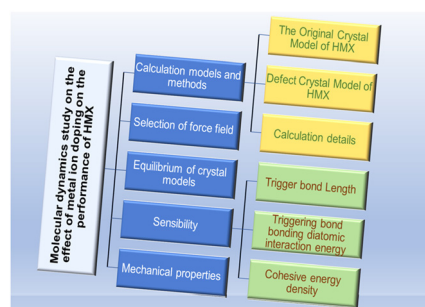
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### Molecular dynamics study on the effect of metal ion doping on the performance of HMX

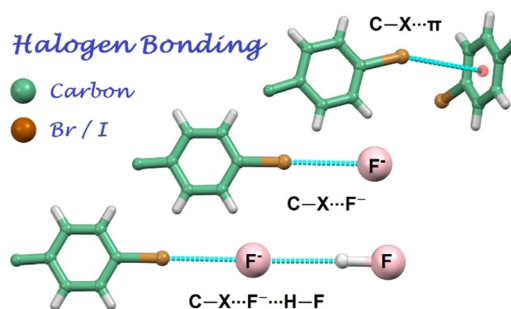
Wenyuan Ding, Xue Zhao,\* Yuanyuan Li, Siqi Qiu and Junrui Huang



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### C–H hydrogen bond and halogen bond directed self-assembly of ethereal podands and $C-X\cdots F^-/HF_2^-$ halogen bonding in solution

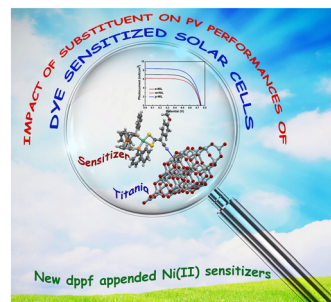
Dipjyoti Dutta, Anamika Gogoi, Rupjyoti Dutta, Sarvesh S. Harmalkar, Prem Lama\* and Sandeep Kumar Dey\*



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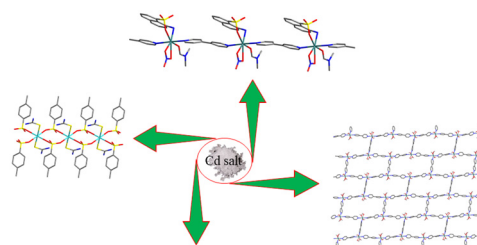
Devayani Srivastava, Aparna Kushwaha, Gabriele Kociok-Köhn, Suresh W. Gosavi, Ratna Chauhan,\* Muthupandian Ashokkumar, Abhinav Kumar\* and Mohd. Muddassir



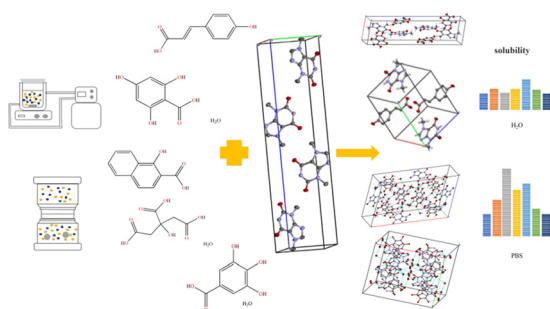
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### Investigation of four Cd(II) sulfonate complexes: crystal structure, Hirshfeld surface analysis, thermogravimetric and spectroscopic properties

Xueyuan Wang, Eduardo Carrillo-Aravena, Yuandong Wu,\* Dajiang Mei, Shaoguo Wen and Thomas Doert



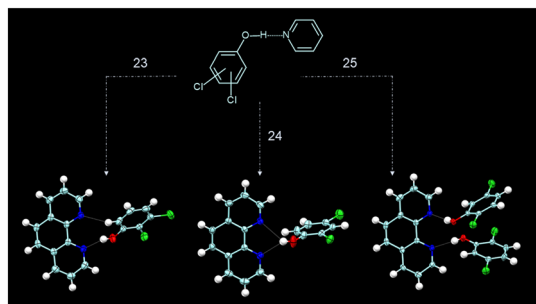
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### Six novel multicomponent systems of theobromine with carboxylic acids: crystallographic structures, solubility determination and DFT calculations

Xin-Yue Yuan, Yan Cheng, Jun Liu, Qi-Lei Sun\* and Fu-Min Xue\*

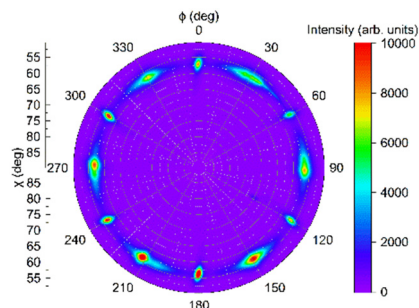
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### Dichlorosubstitution as a steering tool in hydrogen bonded cocrystals: the nature of rigid and flexible cofomers in crystal structures

Ritesh Dubey\* and Sandeep Singh

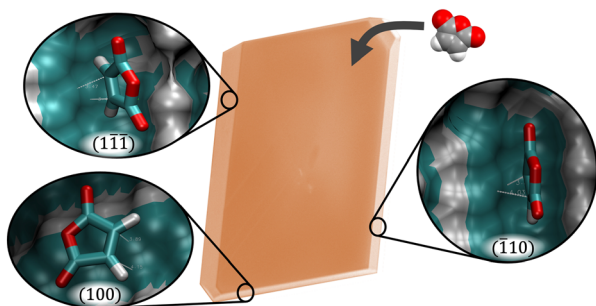
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### Ordered growth of hexagonal and monoclinic phases of MoTe<sub>2</sub> on a sapphire substrate

Lenka Pribusová Slušná,\* Karol Vegso, Edmund Dobročka, Tatiana Vojteková, Peter Nádaždy, Yuriy Halahovets, Michaela Sojková, Jana Hrdá, Marián Precner, Peter Šiffalovič, Zhuo Chen, Yong Huang, Sergej Ražnjević, Zaoli Zhang and Martin Hulman\*

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### Highly varied reaction cavities within a single molecular crystal

Michael R. Carr, Matthew Kochert, Wathsala L. I. Waduge, Gregory J. Deye, Kenneth W. Olsen and Jacob W. Ciszek\*



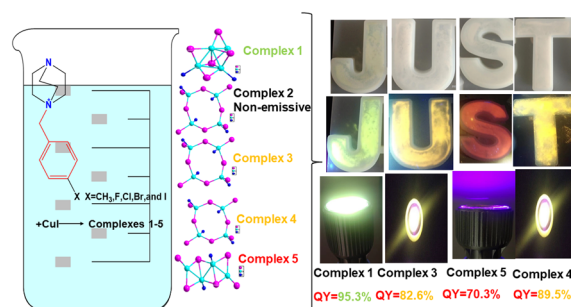


## PAPERS

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### Realizing luminescent from cuprous iodide complexes with high quantum yields by introducing planar aromatic groups and modification with halogen atoms on the ligand

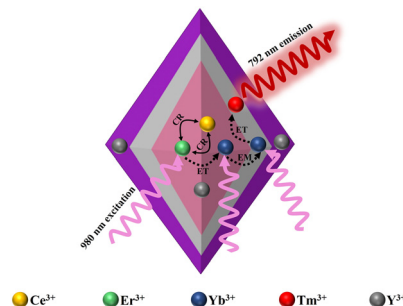
Abraham Mensah, Wei-Min Chen, Ennin Vendish Kweku, Peng-Lai Liu, Juan-Juan Shao, Fang-Ming Wang\* and Li-Zhuang Chen\*



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### LiErF<sub>4</sub> upconversion nanoparticles for the first near-infrared emission *via* energy management

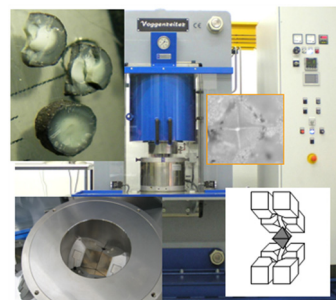
Ying Chen, Xuegang Zheng, Meijuan Liu, Haobo Lin, Shusheng Pan, Weiwei Xing, Zhiyu Liu, Dekang Xu and Hao Lin\*



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### Nanostructuring and stabilization of metastable rock-salt ZnO: impact of high-pressure media and compression geometry

Petr S. Sokolov, Alexandre Courac and Vladimir L. Solozhenko\*



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### Ligand competition on uranyl ion: further examples of zwitterionic vs. anionic carboxylate coordination

Sotaro Kusumoto, Youssef Atouini, Yoshihiro Koide, Shinya Hayami,\* Yang Kim,\* Jack Harrowfield\* and Pierre Thuéry\*

