

## IN THIS ISSUE

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### Cover

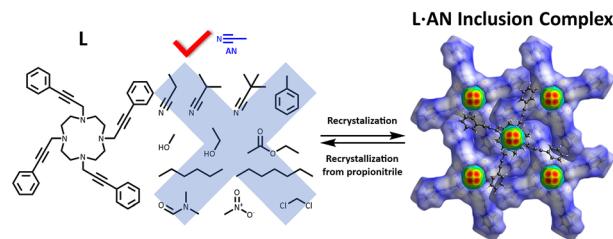
See Teng-Fei Zheng,  
Shu-Li Yao, Sui-Jun Liu *et al.*,  
pp. 2366–2371.  
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## COMMUNICATIONS

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### A molecular sponge that exclusively adsorbs acetonitrile

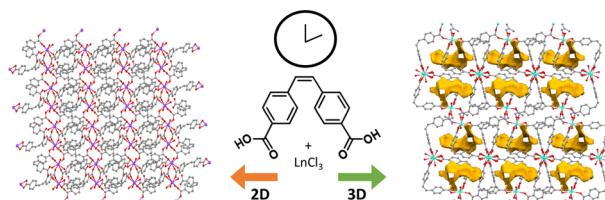
Yoichi Habata,\* Ayumi Wada, Eunji Lee, Huiyong Ju,  
Yuki Yoshioka, Hiroki Horita, Jun-ichi Ishii, Mari Ikeda  
and Shunsuke Kuwahara



2353

### (Z)-4,4'-Stilbene dicarboxylic acid, the overlooked metal-organic framework linker

Lucy R. Hunter,\* Joshua K. G. Karlsson,  
Jonathan D. Sellars and Michael R. Probert\*



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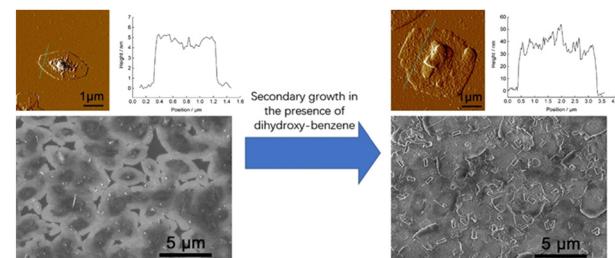


## COMMUNICATIONS

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**Twin suppression effect of dihydroxy-benzene isomers during the secondary growth of *b*-oriented zeolite MFI nanosheet films**

Ruilan Xu, Yong Peng,\* Peng Lu, Yurun Miao, Xuekui Duan, Dennis T. Lee, Rui Wang, Zhengbao Wang\* and Michael Tsapatsis\*

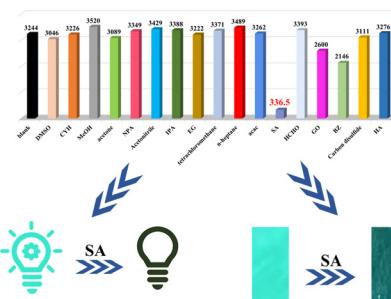


## PAPERS

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**A highly stable and efficient benzothiadiazole-based fluorescence sensor for salicylaldehyde in aqueous solution**

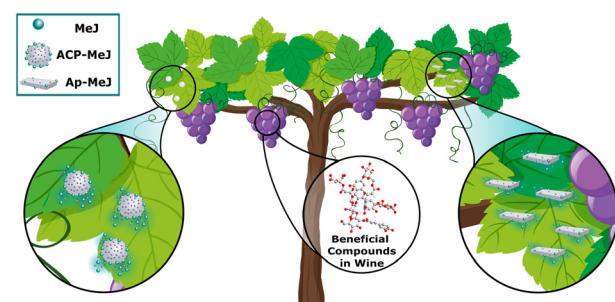
Xiao-Long Yan, Xiao-Qin Cao, Cheng-Rui Deng, Teng-Fei Zheng,\* Shu-Li Yao\* and Sui-Jun Liu\*



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**Amorphous vs. nanocrystalline calcium phosphate as efficient nanocarriers of elicitors in vineyards**

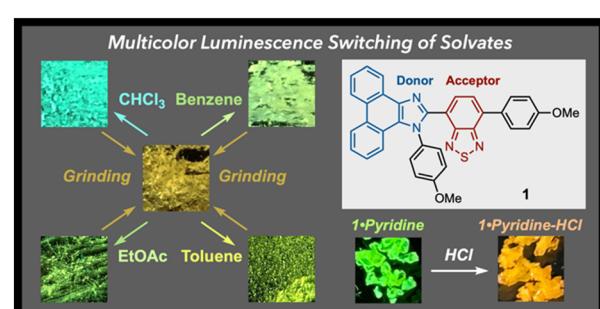
Belen Parra-Torrejón, Marta Salvachúa-de la Fuente, María J. Giménez-Bañón, Juan D. Moreno-Olivares, Diego F. Paladines-Quezada, Juan A. Bleda-Sánchez, Rocío Gil-Muñoz, Gloria B. Ramírez-Rodríguez\* and José M. Delgado-López\*



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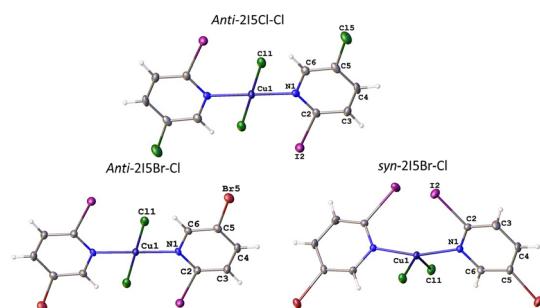
**Solvates of a dianisyl-substituted donor–acceptor-type benzothiadiazole: mechanochromic, vapochromic, and acid-responsive multicolor luminescence**

Takumi Yagi, Takashi Tachikawa and Suguru Ito\*



## PAPERS

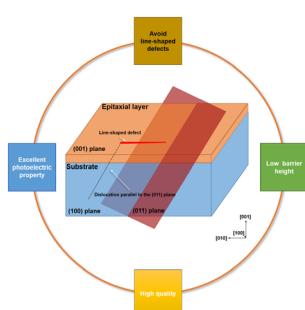
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**Halogen bond and polymorphism in *trans*-bis(2-iodo-5-halopyridine)dihalocopper(II) complexes: crystallographic, theoretical and magnetic studies**

Firas F. Awwadi,\* Manal I. Alwahsh, Mark M. Turnbull and Christopher P. Landee

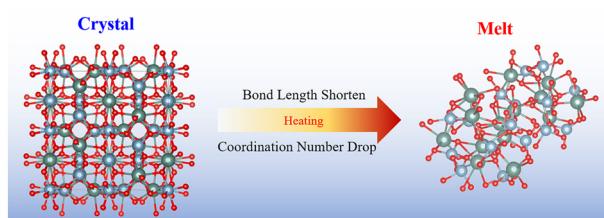
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**Growth and characterization of the  $\beta$ - $\text{Ga}_2\text{O}_3$  (011) plane without line-shaped defects**

Boyang Chen, Wenxiang Mu,\* Yiyuan Liu, Pei Wang, Xu Ma, Jin Zhang, Xuyang Dong, Yang Li,\* Zhitai Jia and Xutang Tao

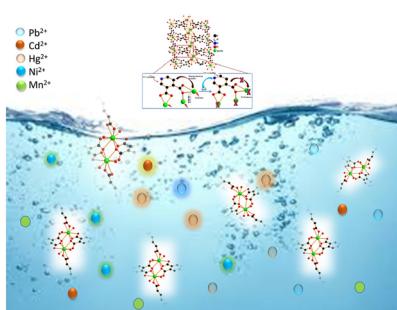
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**Molecular dynamic simulations of the liquid structure and fast growth of  $\text{Y}_3\text{Al}_5\text{O}_{12}$**

Xianjie Zhang, Feng Liu, Kunfeng Chen, Guilin Zhuang, Chao Peng and Dongfeng Xue\*

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**Selective and efficient detection of  $\text{Pb}^{2+}$  in aqueous solution by lanthanoid-organic frameworks bearing pyridine-3,4-dicarboxylic acid and glutaric acid**

Zaib ul Nisa, Nargis Akhter Ashashi, Richa Singhaal, Musheer Ahmad, Rosa M. Gomila, Antonio Frontera and Haq Nawaz Sheikh\*

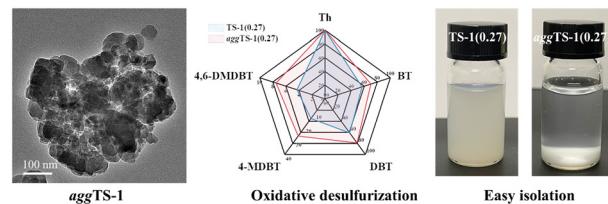


## PAPERS

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**Facile and template-free synthesis of robust, highly active and easily recyclable submicrometer-sized hierarchical TS-1 aggregates composed of ultra-small nanocrystallites (<50 nm)**

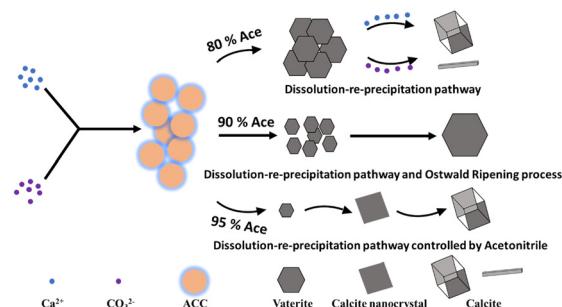
Linghao Li, Wei Wang, Jian Huang,\* Rongmin Dun, Bowen Lu, Yiwei Liu, Jingxian Wu, Siyu Yang and Zile Hua\*



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**Phase transformation of calcium carbonate in acetonitrile/H<sub>2</sub>O mixed solvents: effects of water content and dielectric constant**

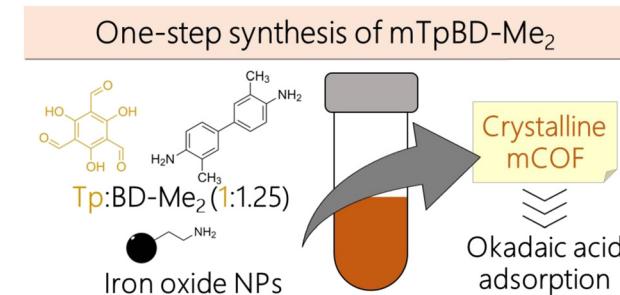
Wenwu Zou, Zhenze Xie and Chang Du\*



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**One-step synthesis of magnetic covalent organic framework composite for the adsorption of marine toxin okadaic acid**

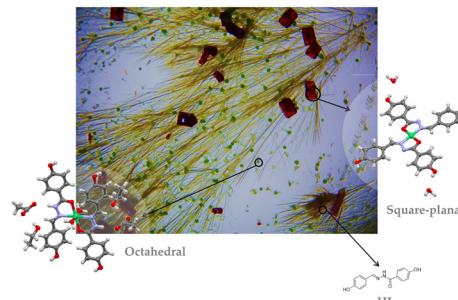
Vanesa Romero, Soraia P. S. Fernandes, Liliana P. L. Gonçalves, Orlando Oliveira, Maria Meledina, Karol Strutyński, Manuel Melle-Franco, Yury V. Kolen'ko, Begoña Espiña\* and Laura M. Salonen\*



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**Square-planar and octahedral nickel complexes of an acylhydrazone ligand and the serendipitous isolation of a potential octahedral nickel acylhydrazone precursor**

Rosa Carballo, Ana Belén Lago,\* María Vázquez-Toirán, Laura Estévez and Ezequiel M. Vázquez-López\*



## PAPERS

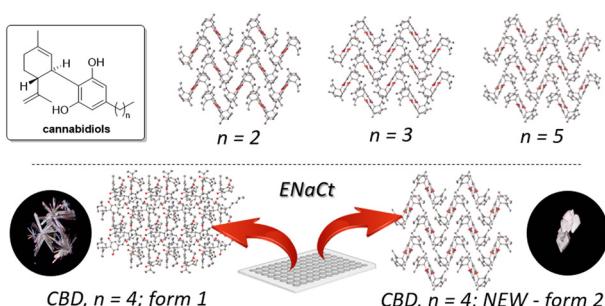
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**Alkali metal doped ruthenium dioxide nanosheets with lattice distortion as highly active oxygen evolution electrocatalysts in acidic media**

Hai Tang, Ming Kong, Wenwen Cao, Wenguang Ma, Jianjun Ding, Chuanxin Shi,\* Xiaodong Yang,\* Qi Shen\* and Yiqiang Sun

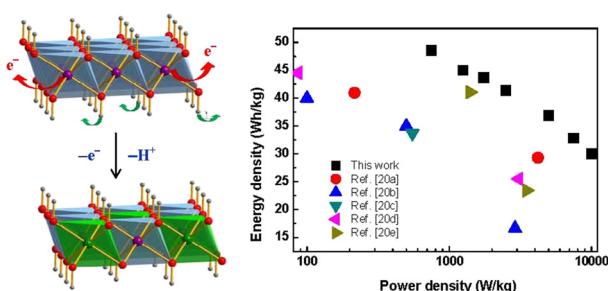
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**Polymorph prediction through observed structural isomorphism leading to a new crystalline form of cannabidiol**

Hannah E. Straker,\* Lynn McMillan,\* Lina Mardiana, Glen R. Hebberd, Elle Watson, Paul G. Waddell, Michael R. Probert\* and Michael J. Hall\*

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**Ce<sup>3+</sup> ion regulated CoNi-hydroxides for ultrahigh charge rate supercapacitors**

Fei Liu, Mengying Zhao, Kunfeng Chen,\* Mei Hu\* and Dongfeng Xue\*

