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

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Cover

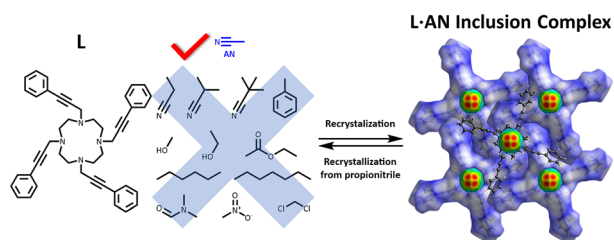
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Shu-Li Yao, Sui-Jun Liu *et al.*,
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COMMUNICATIONS

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A molecular sponge that exclusively adsorbs acetonitrile

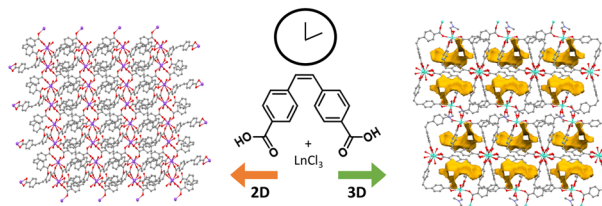
Yoichi Habata,* Ayumi Wada, Eunji Lee, Huieyong Ju, Yuki Yoshiba, Hiroki Horita, Jun-ichi Ishii, Mari Ikeda and Shunsuke Kuwahara



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(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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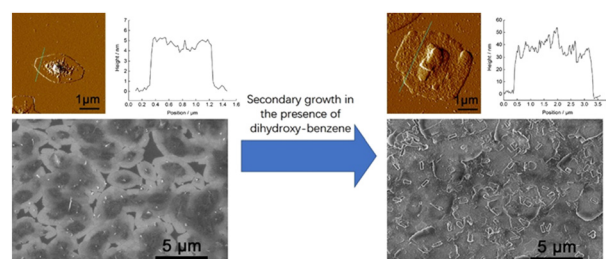


COMMUNICATIONS

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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*



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

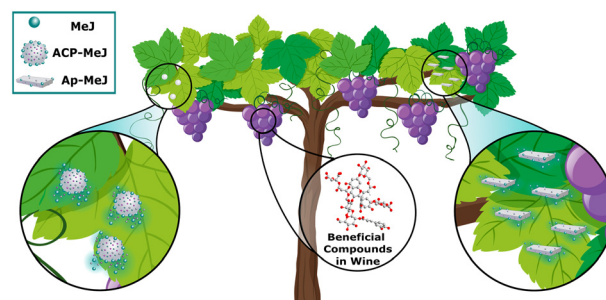
Xiao-Long Yan, Xiao-Qin Cao, Cheng-Rui Deng, Teng-Fei Zheng,* Shu-Li Yao* and Sui-Jun Liu*



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

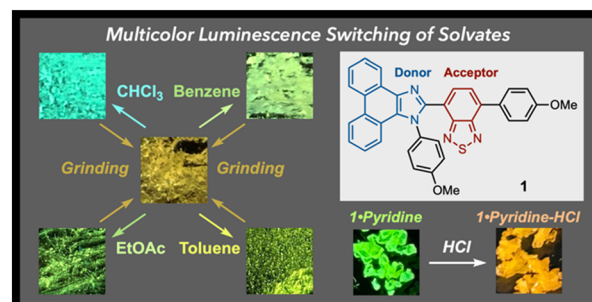
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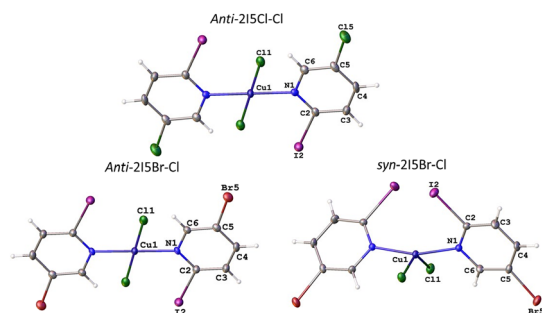
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Solvates of a dianisyl-substituted donor-acceptor-type benzothiadiazole: mechanochromic, vapochromic, and acid-responsive multicolor luminescence

Takumi Yagi, Takashi Tachikawa and Suguru Ito*



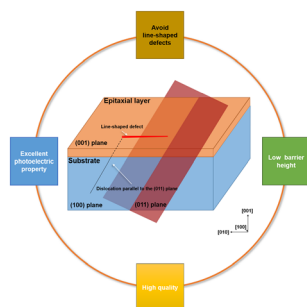
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Halogen bond and polymorphism in *trans*-bis(2-iodo-5-halopyridine)dihalocopper(II) complexes: crystallographic, theoretical and magnetic studies

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

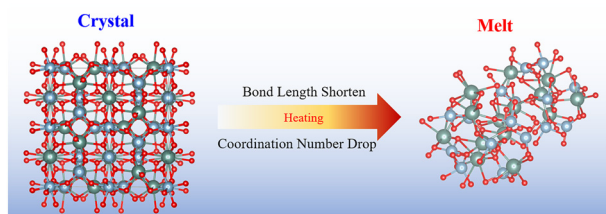
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Growth and characterization of the β -Ga₂O₃ (011) plane without line-shaped defects

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

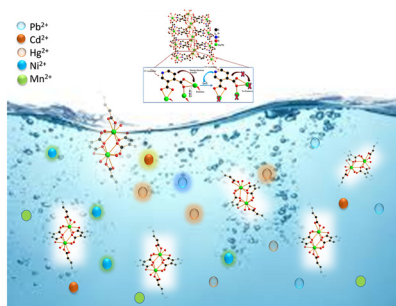
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Molecular dynamic simulations of the liquid structure and fast growth of Y₃Al₅O₁₂

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

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Selective and efficient detection of Pb²⁺ 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*

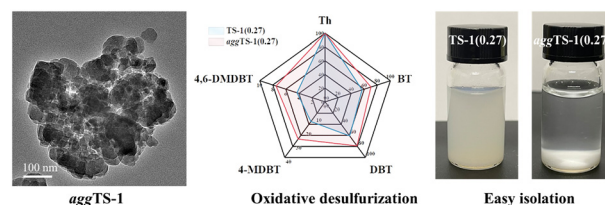


PAPERS

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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)

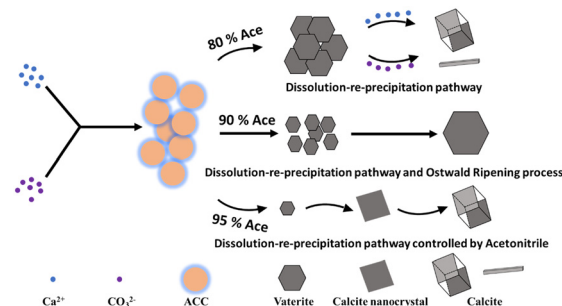
Linghao Li, Wei Wang, Jian Huang,* Rongmin Dun, Bowen Lu, Yiwei Liu, Jingxian Wu, Siyu Yang and Zile Hua*



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Phase transformation of calcium carbonate in acetonitrile/H₂O mixed solvents: effects of water content and dielectric constant

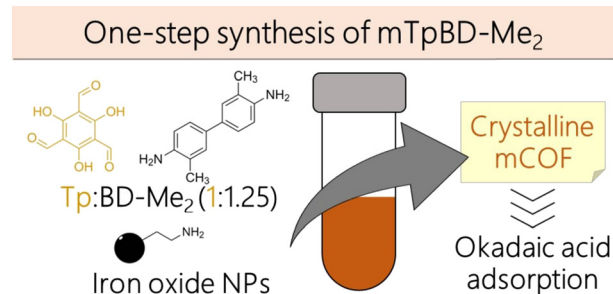
Wenwu Zou, Zhenze Xie and Chang Du*



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

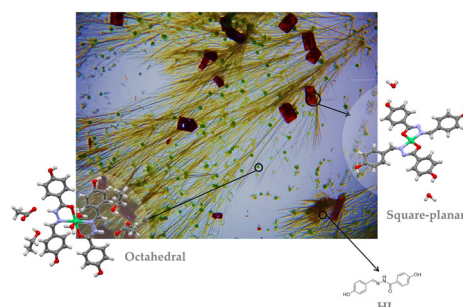
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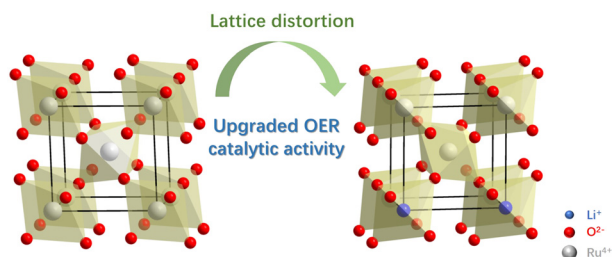
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Rosa Carballo, Ana Belén Lago,* María Vázquez-Toirán, Laura Estévez and Ezequiel M. Vázquez-López*



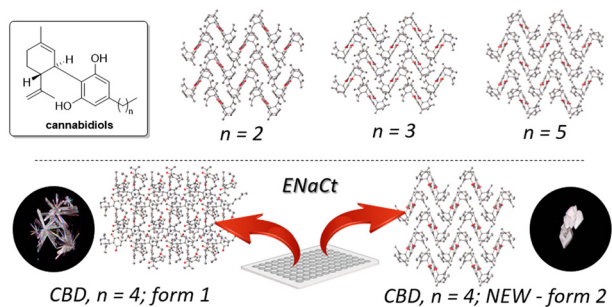
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Alkali metal doped ruthenium dioxide nanosheets with lattice distortion as highly active oxygen evolution electrocatalysts in acidic media

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

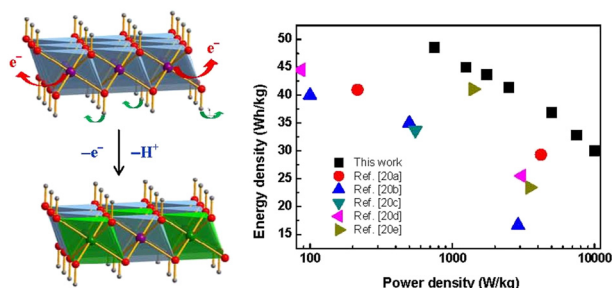
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Polymorph prediction through observed structural isomorphism leading to a new crystalline form of cannabidiol

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

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Ce³⁺ ion regulated CoNi-hydroxides for ultrahigh charge rate supercapacitors

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

