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

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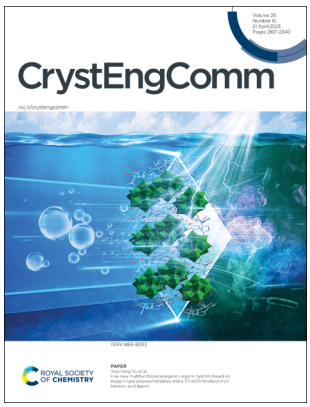
ISSN 1466–8033 CODEN CRECF4 25(15) 2167–2340 (2023)



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See Xiao-Yang Yu *et al.*, pp. 2185–2195.
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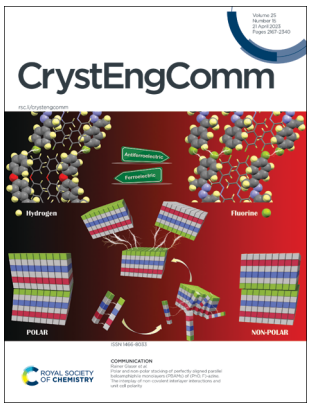

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See Rainer Glaser *et al.*, pp. 2175–2180.
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COMMUNICATIONS

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Harmeet Bhoday, Steven P. Kelley and Rainer Glaser*

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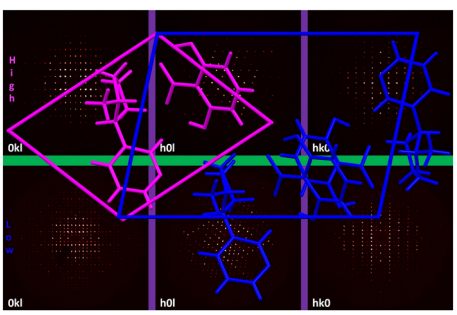
Unusual single crystal to single crystal phase transition of a nicotine salt monitored using temperature dependent single crystal X-ray diffraction

Devin J. Angevine, Travis Mitchell, Xiaotong Zhang and Jason B. Benedict*



CrystEngComm (electronic: ISSN 1466-8033) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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PAPERS

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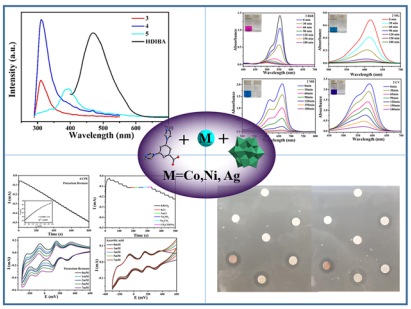
Five new multifunctional inorganic–organic hybrids based on Keggin-type polyoxometalates and a 3,5-di(1*H*-imidazol-1-yl)benzoic acid ligand

Xiao-Yang Yu,* Yanxin Lv, Xiaoyu Weng, Jiaqi Geng, Yanyan Yang, Hua Jin, Hao Cui, Bo Fu, Xiaoshu Qu,* Hongfei Shi and Xueling Cao*



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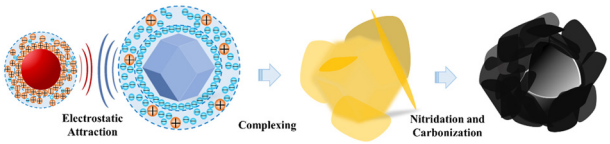
VN@C hollow structures derived from ZIF-8 templates for a lithium-ion battery anode

Keke Zhu, Yunpeng Zhang, Ranran Jiao, Yanjun Zhai, Denghu Wei, Suyuan Zeng* and Lei Wang*



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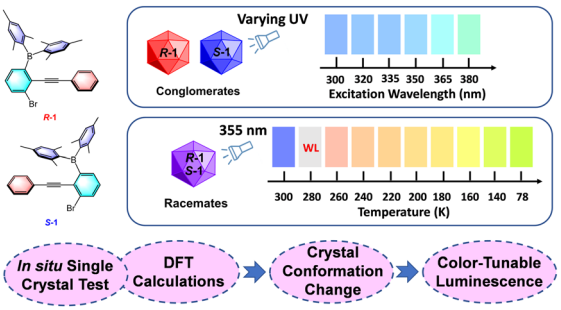
Yangbin Xie, Songshan Dai, Yue Wang, Xi Wang, Ying Sun, Zhenghua Ju, Ran Fang, Baoxin Zhang,* Jincai Wu, Xiaoxiang Zhang* and Xiaobo Pan*



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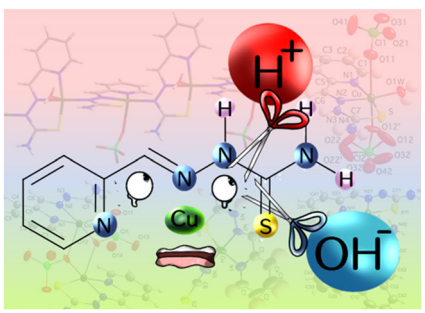
Rubén Gil-García, Gotzon Madariaga,* Alondra Jiménez-Pérez, Ignacio Herrán-Torres, Adrián Gago-González, María Ugalde, Vaidas Januskaitis, Joaquín Barrera-García, Maite Insausti, María S. Galletero, Joaquín Borrás, José Vicente Cuevas, Rosa Pedrido, Patricia Gómez-Saiz, Luis Lezama and Javier García-Tojal*



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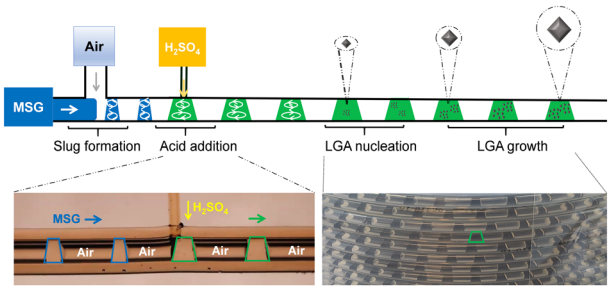

L-Glutamic acid crystals of pure α form and uniform size distribution from continuous non-seeded reaction crystallization in slug flow

Consuelo Del Pilar Vega Zambrano and Mo Jiang*

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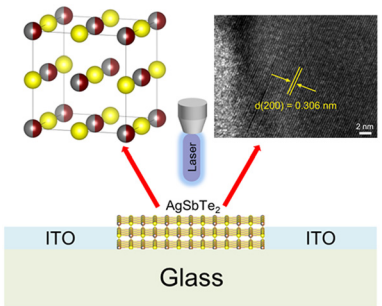

Solution-grown ternary quasi-cube $AgSbTe_2$ and its optoelectronic performance for broadband photodetection

Cunxin Li, Kaijia Xu, Lanjun Cheng, Zhichuan Wu* and Yinyin Qian*

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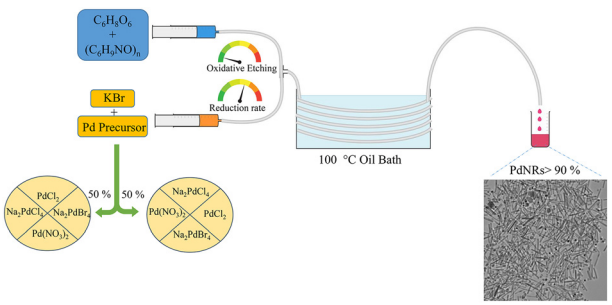

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Vindula Basnayake Pussepitiyalage and Shohreh Hemmati*

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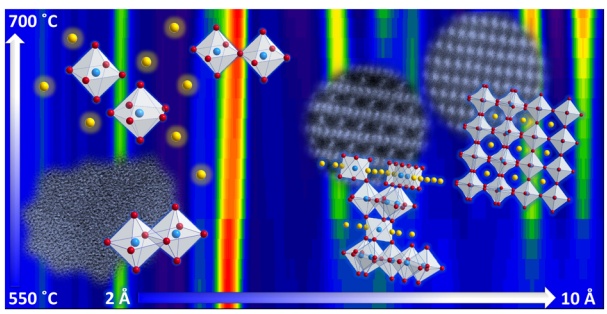

Sodium tantalates: monitoring crystallization *via in situ* total X-ray scattering

Ezgi Onur Şahin, Siyuan Zhang, Christina Scheu and Claudia Weidenthaler*

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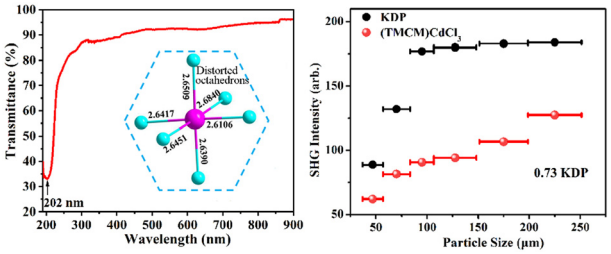
High stability and moderate second-order nonlinear optical properties of hybrid lead-free perovskite $[(CH_3)_3NCH_2Cl]CdCl_3$ bulk crystals

Chuanying Shen, Jie Liu, Kui Wu,* Longyun Xu, Defu Sun, Yangyang Dang, Jiyang Wang and Duanliang Wang*



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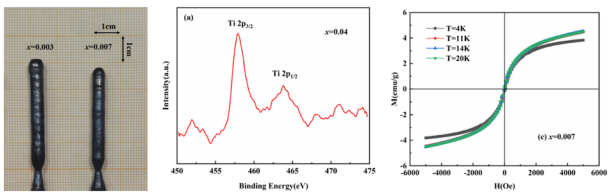
Unusual magnetic behavior of TiO_2-doped $CuFeO_2$ crystals ($CuFe_{1-x}Ti_xO_2$) grown by the optical floating zone method

Jingwen Hou, Bernard A. Goodman, Yuchen Lu, Qunyue Zhang, Bin Huang, Long Chen, Shoulei Xu, Wen Deng and Dingkang Xiong*



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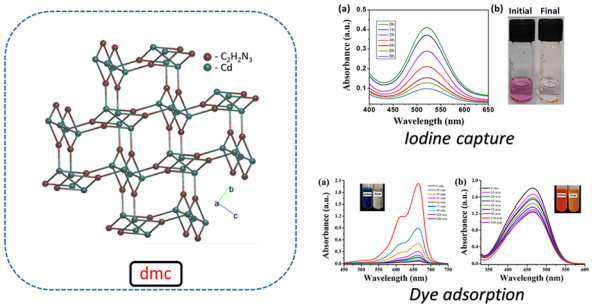
Fabrication of a Cd(II) metal–organic framework as a dual functional material: efficient iodine capture and selective adsorption of a cationic dye

Farhat Vakil, M. Shahwaz Ahmad, Manjeet Kumar, Azaj Ansari, M. Shahid* and Musheer Ahmad



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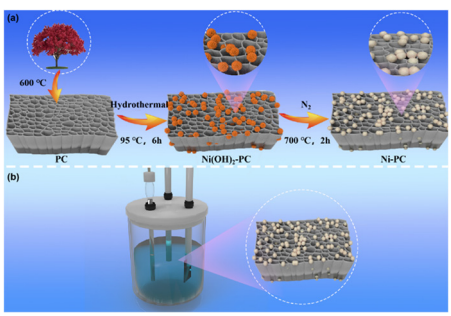
Ni nanoparticles assembled on the surface of biomass-derived porous carbon as competitive candidates for the hydrogen evolution reaction

Dong-Feng Chai,* Yue Han, Wenzhi Zhang, Guohua Dong,* Zhuanfang Zhang, Liming Bai and Dongxuan Guo*



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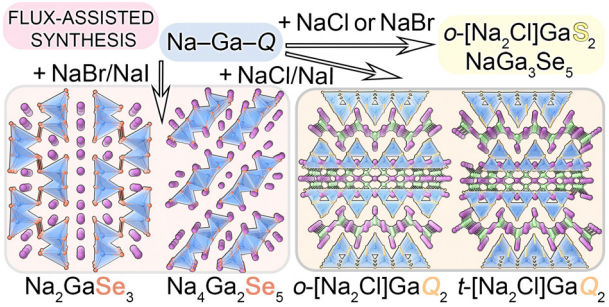

Flux-assisted polytypism in the $[Na_2Cl]GaQ_2$ heterolayered salt-inclusion chalcogenide family

Anna A. Berseneva, Vladislav V. Klepov, Hunter B. Tisdale and Hans-Conrad zur Loye*

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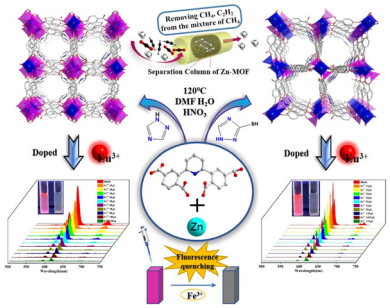

Highly selective C_2H_2 and CO_2 capture based on two new Zn^{II}-MOFs and fluorescence sensing of two doped MOFs with Eu^{III}

Xin-Wei Meng, Tao Ding,* Bin Liu, Xue-Song Gong, Bo Liu and Li-Na Zheng*

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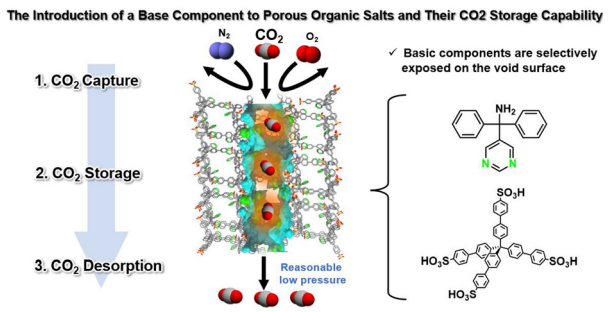

The introduction of a base component to porous organic salts and their CO_2 storage capability

Takahiro Ami, Kouki Oka, Keiho Tsuchiya, Wataru Kosaka, Hitoshi Miyasaka and Norimitsu Tohnai*

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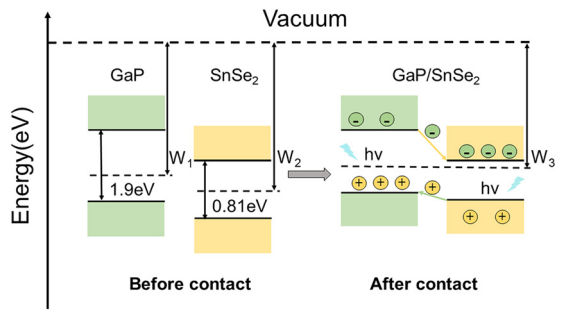

Theoretical design of a photodetector based on a two-dimensional $SnSe_2$/GaP type-II heterostructure

Jiaxin Wang, Xing Wei, Jinzhe Xuan, Yan Zhang, Jibin Fan, Lei Ni, Yun Yang, Jian Liu, Ye Tian, Shu Ma and Li Duan*