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Cover

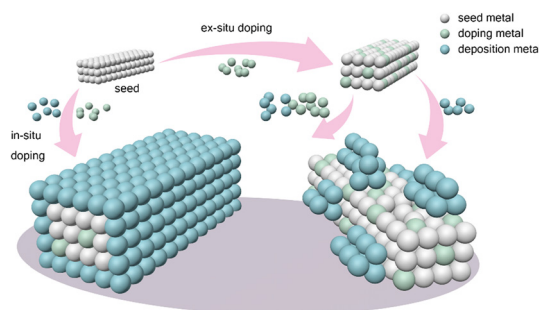
See Claire A. Murray,
Julia E. Parker *et al.*,
pp. 753–763.
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HIGHLIGHT

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Seeded growth of gold-based nanostructures regulated by controlled doping

Yuanyuan Min, Haoyu Sun and Yiqun Zheng*

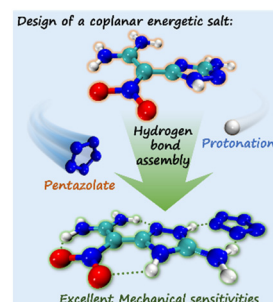


COMMUNICATION

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A desirable coplanar energetic pentazolate salt driven by hydrogen bonds

Mingjie Tang, Zhaoyang Yin, Zhiwei Zeng, Yaqun Dong,
Wei Huang,* Yuji Liu and Yongxing Tang*



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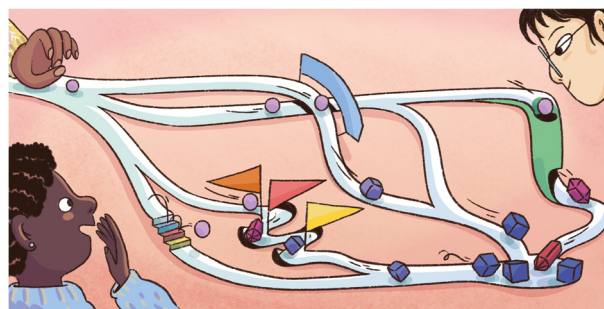
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Project M: investigating the effect of additives on calcium carbonate crystallisation through a school citizen science program

Claire A. Murray,* Project M Scientists, Laura Holland, Rebecca O'Brien, Alice Richards, Annabelle R. Baker, Mark Basham, David Bond, Leigh D. Connor, Sarah J. Day, Jacob Filik, Stuart Fisher, Peter Holloway, Karl Levik, Ronaldo Mercado, Jonathan Potter, Chiu C. Tang, Stephen P. Thompson and Julia E. Parker*

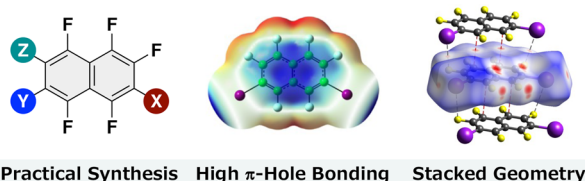


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Perfluorohalogenated naphthalenes: synthesis, crystal structure, and intermolecular interaction

Naoya Ohtsuka, Hino Ota, Satoshi Sugiura, Shuya Kakinuma, Haruki Sugiyama, Toshiyasu Suzuki and Norie Momiyama*

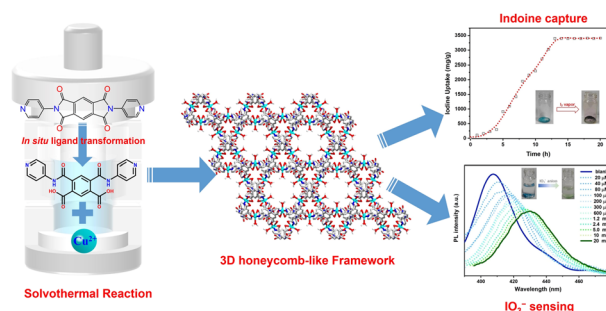
Perfluorohalogenated Naphthalenes: PFXNaPs



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Highly efficient iodine uptake and iodate selective probe in a 3D honeycomb-like copper-organic framework based on *in situ* ligand transformation

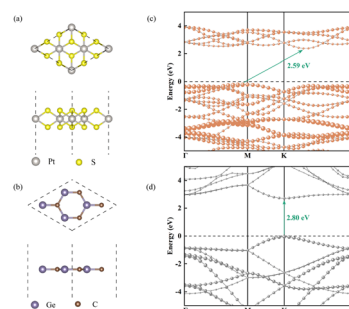
Wen Dai,* Chuanming Zhang, Xiaoang Yang and Lincai Li

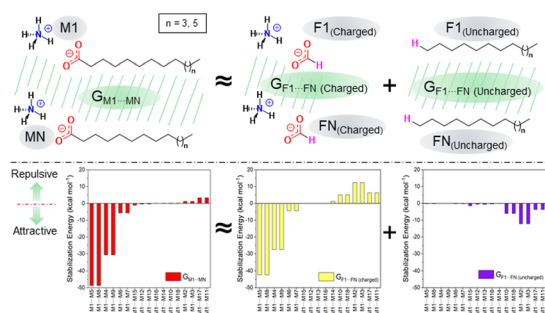


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PtS₂/GeC van der Waals heterostructure: a promising direct Z-scheme photocatalyst with high solar-to-hydrogen energy conversion efficiency for overall water splitting under acidic, alkaline, and neutral conditions and in large-strain regions

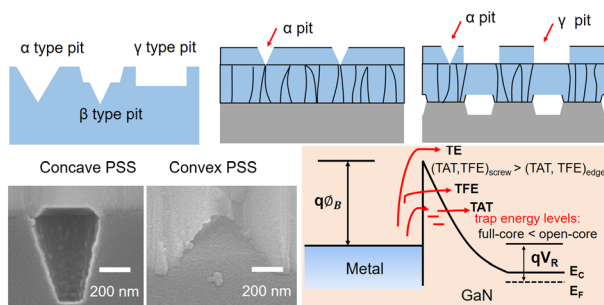
Jian-Xin Ding, Yan Zhang,* Kang-Xin Xie, Zhi-Bo Qiang, Hua-Xin Chen, Li Duan, Lei Ni and Ji-Bin Fan





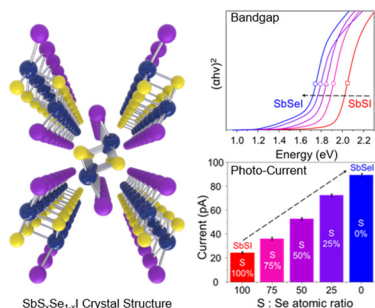
Ammonium carboxylate salts: the additivity of intermolecular interaction energies in charged organic compounds

Jessica M. L. Rosa, Priscila S. V. Lima, Helio G. Bonacorso, Nilo Zanatta and Marcos A. P. Martins*



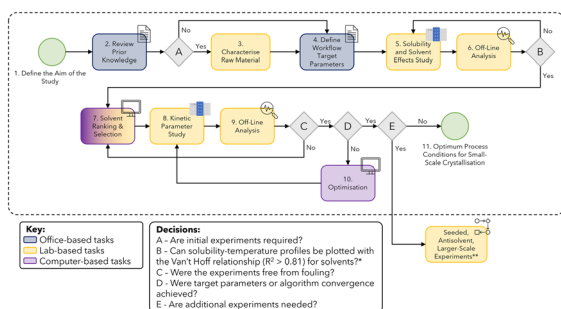
Comparative study of epitaxial growth and Ni/GaN Schottky device on patterned sapphire substrates

Zhiwen Liang, Neng Zhang, Fengge Wang, Yanyan Xu, Xien Yang, Yisheng Liang, Xin Li, Zenghui Liu, Lizhang Lin and Bajun Zhang*



Chalcogen alloying for band structure modulation of antimony chalcogen iodide alloy: 1D van der Waals materials SbSI-SbSeI system

Jiho Jeon, Jinsu Kang, Xiaojie Zhang, Kyung Hwan Choi, Byung Joo Jeong, Chaeheon Woo, Xue Dong, Sang Hyuk Kim, Jae-Hyuk Park, Jeong Min Baik, Hyung-Suk Oh,* Hak Ki Yu* and Jae-Young Choi*



Developing a model-driven workflow for the digital design of small-scale batch cooling crystallisation with the antiviral lamivudine

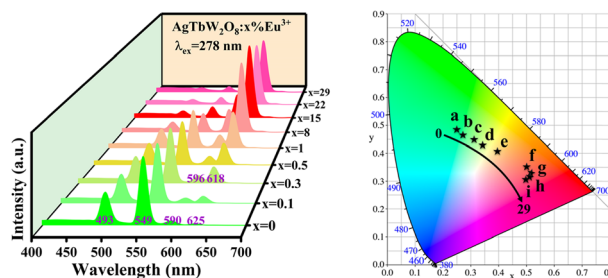
Thomas Pickles, Chantal Mustoe, Christopher Boyle, Javier Cardona, Cameron J. Brown and Alastair J. Florence*



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Hydrothermal synthesis, morphology control and tunable luminescence properties of $\text{AgTbW}_2\text{O}_8:\text{x}\%\text{Eu}^{3+}$ phosphors

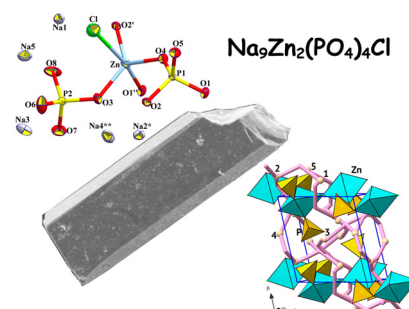
Huimin Du, Jie Yang, Xingzuo Liu, Jun Yang* and Shanshan Hu*



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Crystal chemistry and predicted ionic conductivity of hydrothermally synthesized $\text{Na}_9\text{Zn}_2(\text{PO}_4)_4\text{Cl}$

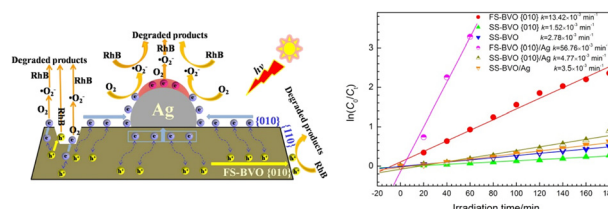
Olga Yakubovich,* Galina Kiriukhina, Anatoly Volkov, Sergey Simonov, Vasilii Yapaskurt and Olga Dimitrova



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Construction of heterostructured $\text{BiVO}_4\text{-}\{010\}/\text{Ag}$ plasmonic photocatalysts by multi-object synchronous optimization of the microstructure of BiVO_4 for significantly enhanced visible light driven photocatalytic performance

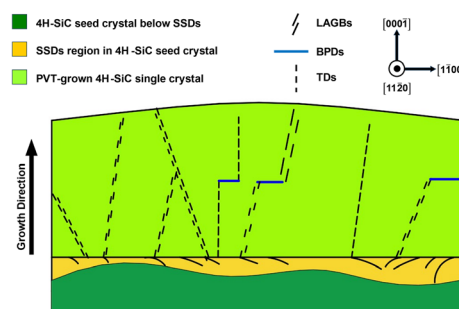
Wei Liu, Shuang Wang, Meixi Lin, Haiqi Luo, Luhuan Chen, Honghui Teng* and Guosheng Zhao*

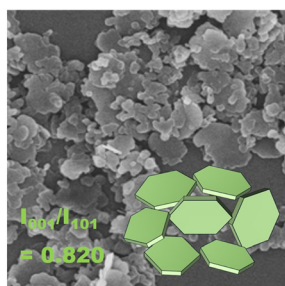
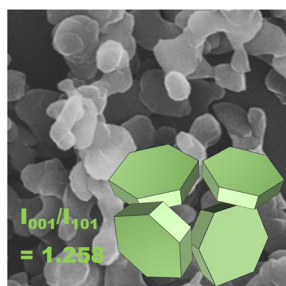


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Effect of subsurface damages in seed crystals on the crystal quality of 4H-SiC single crystals grown by the PVT technology

Guofeng Li, Wei Hang, Hongyu Chen, Rong Wang,* Xiaodong Pi,* Deren Yang and Julong Yuan*





Selective crystal growth of magnesium hydroxide *via* solvent control for dye adsorption

Cunjian Weng, Jing Zhang, Hui Li, Kaitao Li, Wenyan Liu, Xianping Luo,* Wendi Liu* and Yanjun Lin*

