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Cover
See Erik Uran and Matic Lozinšek, pp. 7776–7784.
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HIGHLIGHTS

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Chemical consolidants for cultural heritage preservation: does crystal engineering have a role to play?

Stefania Liakaki-Stavropoulou and Konstantinos D. Demadis*

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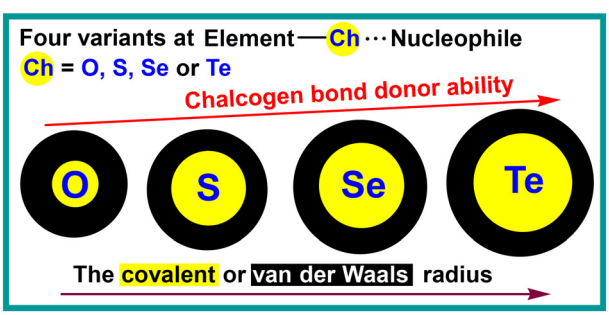
Effect of a single chalcogen atom variation on the chalcogen bond parameters: CSD analysis and theoretical calculations

Vusala A. Aliyeva, Rosa M. Gomila, Vânia André,* Luísa M. D. R. S. Martins,* Antonio Frontera* and Kamran T. Mahmudov*



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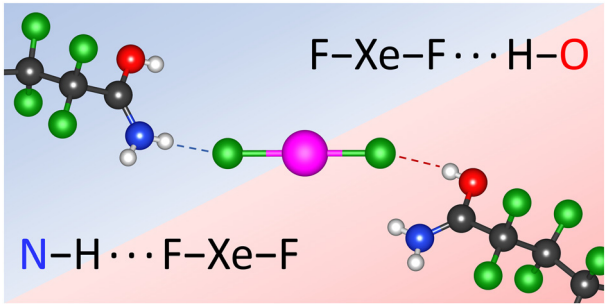
Hydrogen-bonded salt cocrystals of xenon difluoride and protonated perfluoroamides

Erik Uran and Matic Lozinšek*



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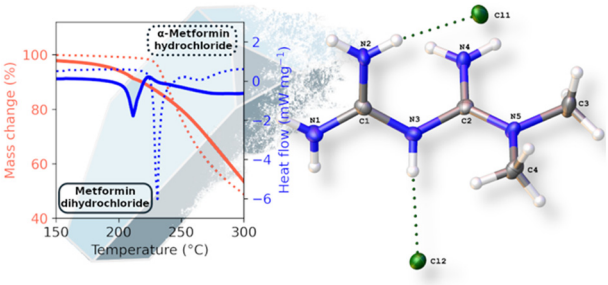
Analysis of a new hydrochloride salt of the common pharmaceutical metformin

Thomas J. Hitchings, School Project Students, Angela Shepherd, Maria Alfredsson and Paul J. Saines*



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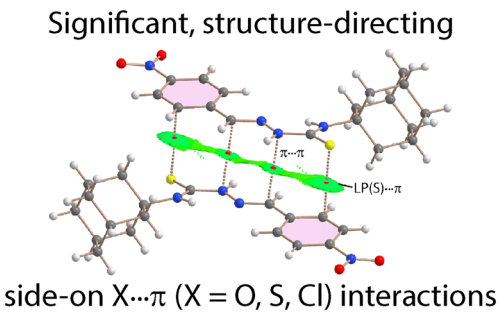
Beyond hydrogen bonds: unveiling the structure-directing role of side-on X···π interactions in adamantane–thiourea crystals

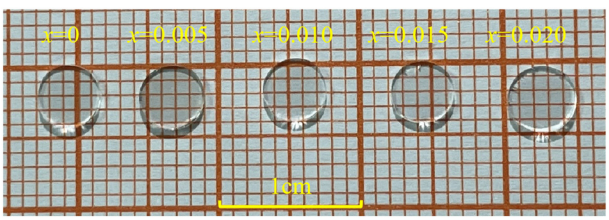
Lamya H. Al-Wahaibi, Olivier Blacque, Aamal A. Al-Mutairi, Ali A. El-Emam,* Rosa M. Gomila, Edward R. T. Tiekink* and Antonio Frontera*



7807

The effect of Tm^{3+} concentration on the structure and luminescence characteristics of LuAG single crystals

Lipeng Huang, Hao Ren, Guozhu Xiong, Jiaxin Liu, Hongyi Zhang, Cunli Wang, Zehang Huang, Shoulei Xu,* Yuyang Huang and Wen Deng



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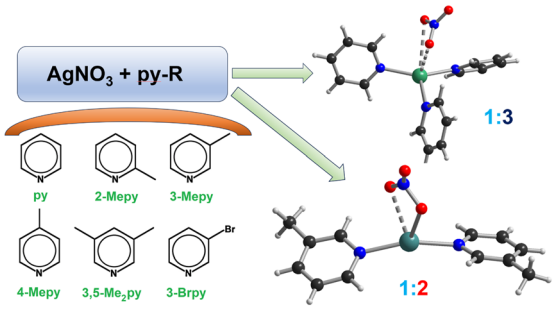

Substituent effects on the structure of [Ag(py-R)$_n$] (NO_3) ionic pairs: structural and computational studies

Ekaterina A. Radiush, Gleb O. Sinelnikov, Matvey K. Shurikov, Maxim V. Shamshurin, Nikolay A. Semenov, Pavel S. Postnikov, Maxim N. Sokolov and Pavel A. Abramov*

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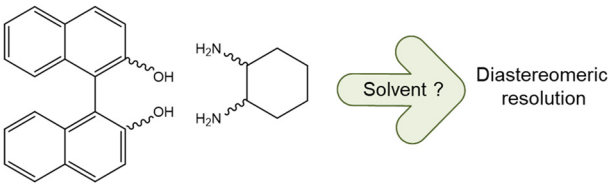

Solvent selection as a major determinant of chiral resolution outcomes: the BINOL–DACH case study

Joséphine de Meester, Oleksii Shemchuk, Laurent Collard, Johan Wouters, Koen Robeyns and Tom Leyssens*

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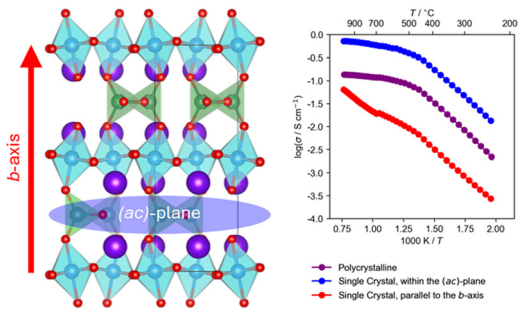

Anisotropic conductivity in brownmillerite-type $Ca_2Fe_2O_5$ observed by measurements on oriented floating-zone grown single crystals

Esther M. Curtis, Josie E. Auckett and Ivana Radosavljević Evans*

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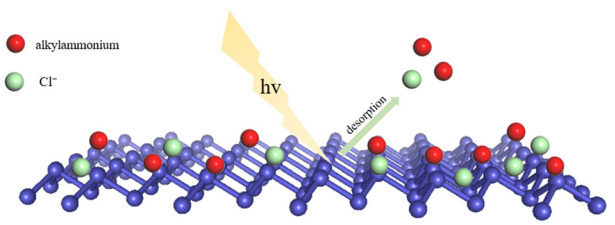

Oleylamine-mediated solvothermal synthesis of antimonene nanosheets

Sheng'en Qiu, Xiaoying Li and Zongping Chen*

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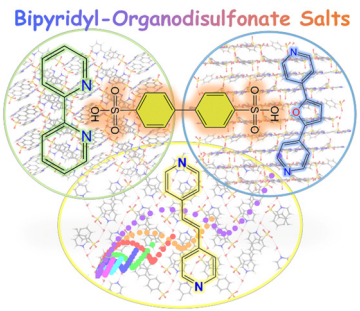
Proton conduction in three molecular assemblies of bipyridyl–organodisulfonate salts

Fu-Wan Dong, Yang-Lu Zhang, Kun-Hua Zhang, Yi Chen, Ao-Na Sun and Dong Shao*



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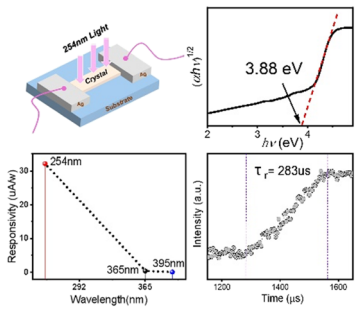
Non-centrosymmetric phase of $[C_4N_2H_{14}][CdBr_4]$ for solar-blind ultraviolet detection

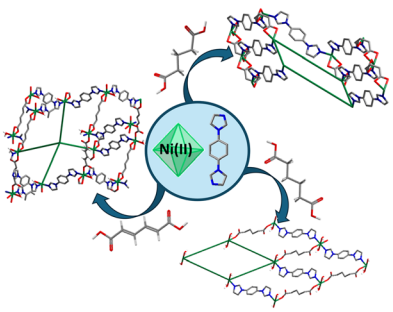
Li Ma, Jinrong Wen, Zhanqiang Liu, Jingshan Hou, Xuyan Miao, Yongzheng Fang,* Yanwei Huang* and Ganghua Zhang*



7865

Crystal engineering of nickel(II) coordination networks sustained by aliphatic dicarboxylate linker ligands

Bharti Singh, Tao He and Michael J. Zaworotko*



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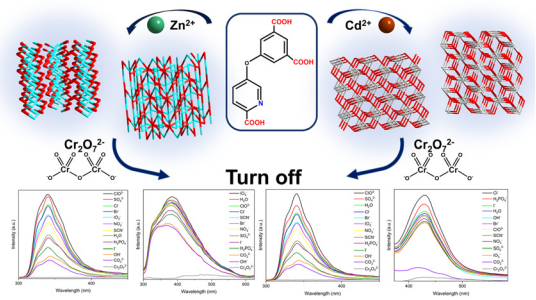
Synthesis, structures and $Cr_2O_7^{2-}$ fluorescence sensing properties of novel Zn(II)/Cd(II) metal–organic frameworks with diverse N/O-donor ligands

Tian-Yi Zhao, Qian Gao, Shu-Man Gao, Zhen Chen, Wen-Jing Zhang, Wen-Jie Fan, Hai-Long Liu, Chun-Sheng Guo, Dong-Mei Zhang* and Xia Zhang*



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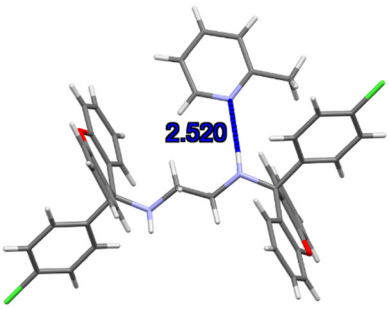

Chloro-containing host compounds with fused tricyclic moieties and diamino linkers: host ability and affinity behaviour in pyridine/methylpyridines

Danica B. Trollip,* Benita Barton,* Mino R. Caira* and Eric C. Hosten

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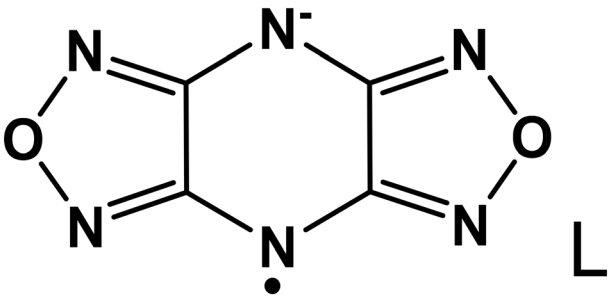

Aqua and ammine 3d metal complexes with the anion-radical of difurazanopyrazine

Sergey Fokin,* Svyatoslav Tolstikov, Vitaly Morozov, Arkady Samsonenko, Galina Romanenko* and Artem Bogomyakov

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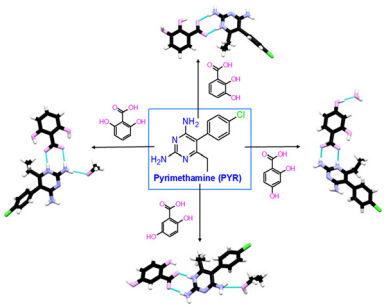

Novel pyrimethamine salts with isomeric dihydroxybenzoic acids: crystallization and characterization

Karolina Kędra, Kajetan Dąbrowa, Arkadiusz Gajek and Magdalena Ceborska*

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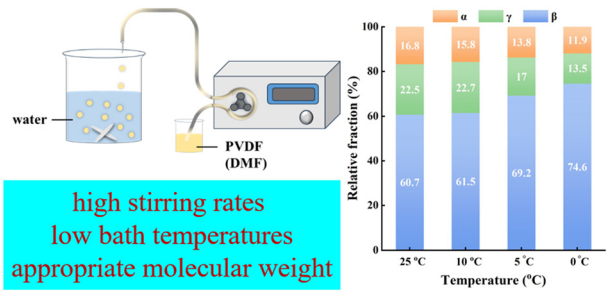

Polymorphism in poly(vinylidene fluoride) nanoparticles prepared by a precipitation method: roles of the stirring rate, temperature and molecular weight

Jiameng Liang, Ruihao Zheng, Haipeng Li, Wenpeng Zhao, Shaojuan Wang,* Hao Zhang* and Shouke Yan

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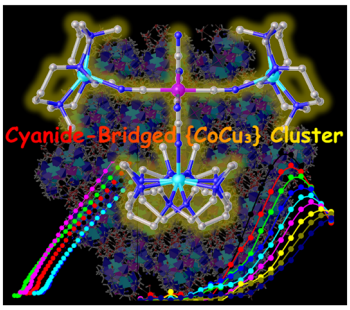
Magnetic and electrical properties of a cyanide-bridged $CoCu_3$ cluster featuring square pyramidal Cu(II) centers

Yang-Lu Zhang, Meng-Tan Cai, Yi Chen, Fu-Xing Shen,* Jiong Yang, Junlun Zhu and Dong Shao*



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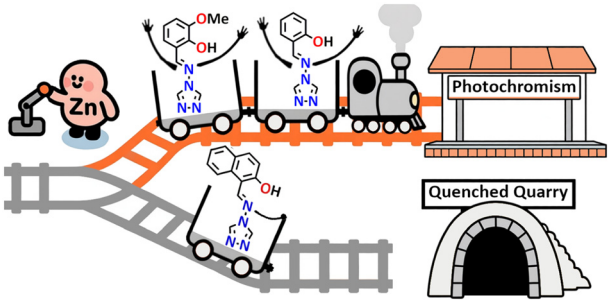
Metal coordination-driven photochromism in Schiff bases incorporating 1,2,4-triazole and hydroxyphenyl moieties

Aleksei A. Anisimov,* Anna A. Bovkunova, Ekaterina V. Dubasova, Victoria E. Gontcharenko, Ilya V. Taydakov, Evgeniya S. Bazhina, Igor L. Eremenko and Ivan V. Ananyev



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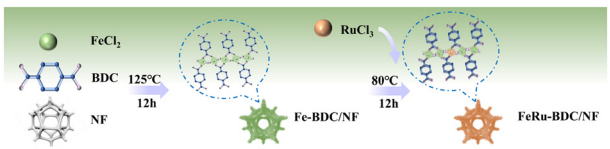
Highly efficient overall water splitting enabled by a bimetallic FeRu-MOF electrocatalyst

Junling Chen, Heng Zhang,* Tinghang Xu, Qiang Liu, Qiaonan Yu, Rong Liang, Qianxiang Zhao, Hanqing Lin, Lishuo Qi and Tiexin Zhang*



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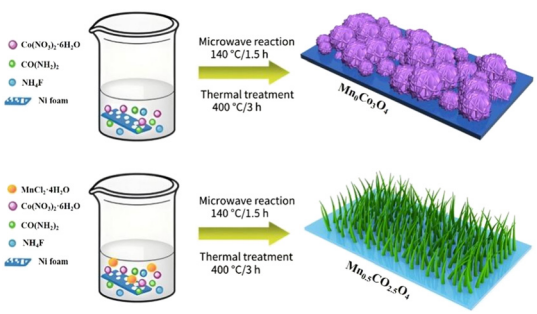
Tailoring non-stoichiometric spinel $Mn_{0.5}Co_{2.5}O_4$ *via* tunable microwave strategy toward advanced supercapacitor application

Maosheng Ge, Yuxuan Sheng, Zhiwen Fang, Wenhao Jiang, Jin Yan, Fatai Lu, Chengqi Sun* and Yin Sun*