

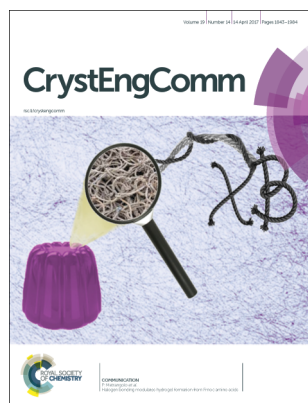
CrystEngComm

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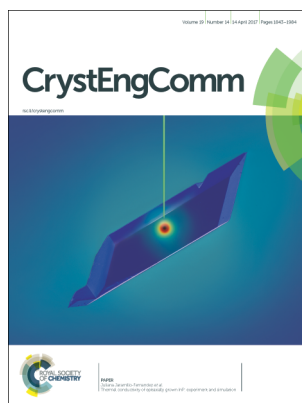
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IN THIS ISSUE

ISSN 1466-8033 CODEN CRECF4 19(14) 1843-1984 (2017)



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pp. 1879–1887.
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1879.

HIGHLIGHT

1851

Non-equimolar discrete compounds in binary chiral systems of organic substances

Elena N. Kotelnikova, Anton I. Isakov and Heike Lorenz*

1:3 and 1:2 discrete compounds are verified in two chiral systems and discussed with respect to known cases in the literature.



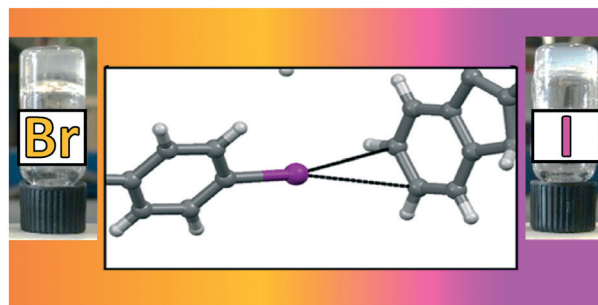
COMMUNICATIONS

1870

Halogen bonding modulates hydrogel formation from Fmoc amino acids

A. Pizzi, L. Lascialfari, N. Demitri, A. Bertolani, D. Maiolo, E. Carretti and P. Metrangolo*

Iodine... π halogen bonding is crucial to the self-assembly of brominated and iodinated Fmoc-phenylalanines.



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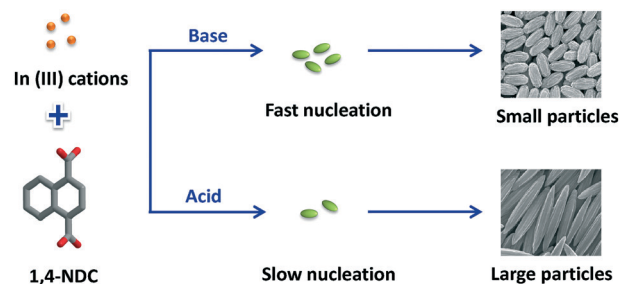
COMMUNICATIONS

1875

Effect of modulators on size and shape-controlled growth of highly uniform In-NDC-MOF particles

Shouxin Bao, Xuechao Cai, Yanshu Shi and Maolin Pang*

Highly uniform ellipsoid or rod-like In-NDC-MOF particles were prepared by a modified solvothermal method in the presence of different modulators.



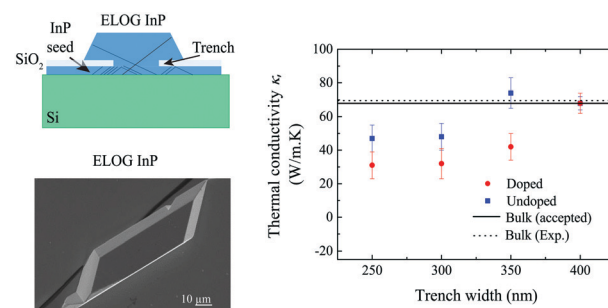
PAPERS

1879

Thermal conductivity of epitaxially grown InP: experiment and simulation

Juliana Jaramillo-Fernandez,* Emigdio Chavez-Angel, Reza Sanatinia, Himanshu Kataria, Srinivasan Anand, Sebastian Lourduoss and Clivia M. Sotomayor-Torres

We report an experimental investigation of the thermal conductivity of ELOG InP on silicon. Our findings are important for improved designs of III-V light sources on silicon.

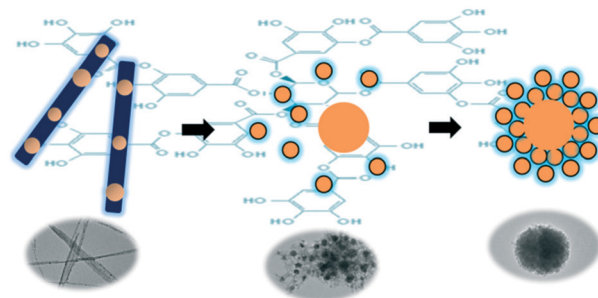


1888

Spherically aggregated Cu₂O-TA hybrid sub-microparticles with modulated size and improved chemical stability

Chao Cai, Tang Zhu, Dongdong Li, Yun Ran, Haixia Dong, Ning Zhao* and Jian Xu*

Tannic acid (TA) induced the spherical aggregation of Cu₂O nanocrystals.

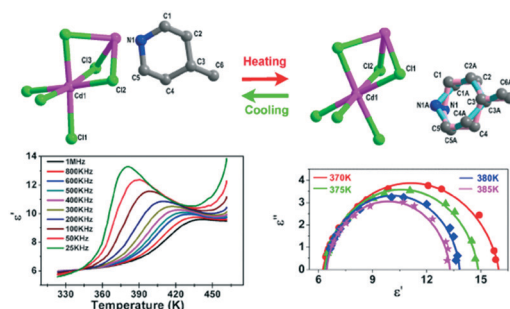


1896

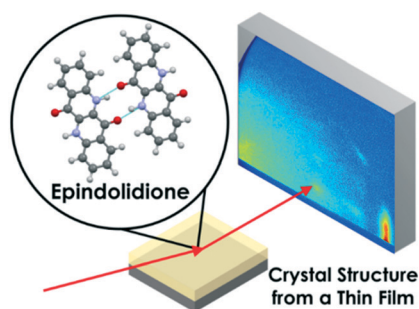
High temperature structural phase transition and dielectric relaxation in an organic-inorganic hybrid compound: (4-methylpiperidinium)CdCl₃

Yang Lu, Zhongxia Wang, Hai-Peng Chen and Jia-Zhen Ge*

A new organic-inorganic hybrid perovskite-type compound (4-methylpiperidinium)CdCl₃, demonstrating high temperature phase transition, coupled with prominent dielectric relaxation behavior.



1902

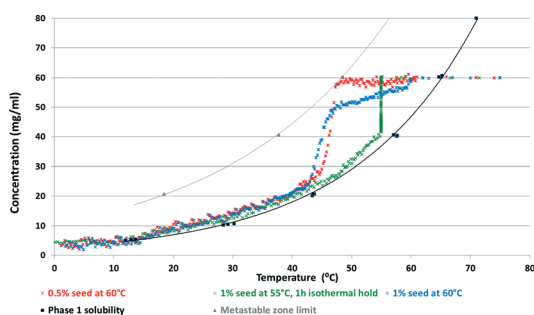


Solution of an elusive pigment crystal structure from a thin film: a combined X-ray diffraction and computational study

Andrew O. F. Jones,* Christian Röthel, Roman Lassnig, O. N. Bedoya-Martínez, Paul Christian, Ingo Salzmann, Birgit Kunert, Adolf Winkler and Roland Resel

The previously unknown crystal structure of epindolidione has been determined from a thin film by combining diffraction data with calculations.

1912

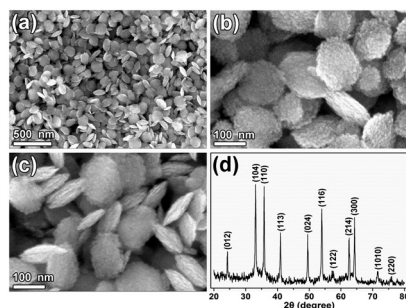


Crystallisation of a salt hydrate with a complex solid form landscape

Eszter Tieger,* Violetta Kiss, György Pokol and Zoltán Finta

A systematic procedure was applied for identifying the operating conditions for a seeded, cooling crystallization process which minimizes the risk of concomitant crystallisation and provides the targeted PSD.

1926

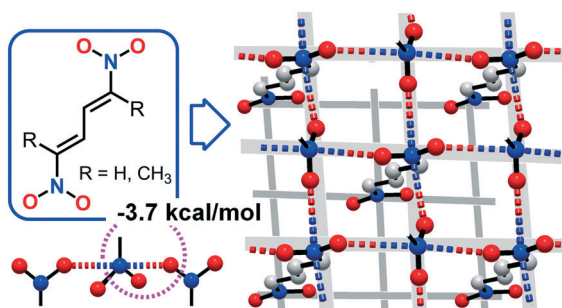


Monocrystalline hematite nanostructures: three-dimensionally oriented aggregation synthesis and their comparative visible-light photocatalytic activities

Pengwei Li,* Xiaole Yan, Jianlong Ji, Yiduo Wu, Jie Hu, Ying Wang, Huabei Jiang and Wendong Zhang

Intelligent three-dimensionally oriented aggregation of nanobuilding blocks during the formation of α -Fe₂O₃ single crystals with a nano-saucer structure has been studied.

1933



π -hole interactions at work: crystal engineering with nitro-derivatives

Antonio Bauzá, Anastasiya V. Sharko, Ganna A. Senchyk, Eduard B. Rusanov, Antonio Frontera* and Kostiantyn V. Domasevitch*

A series of dinitrodiene derivatives present crucial π -hole interactions involving the nitro group as a π -hole donor in the solid state.

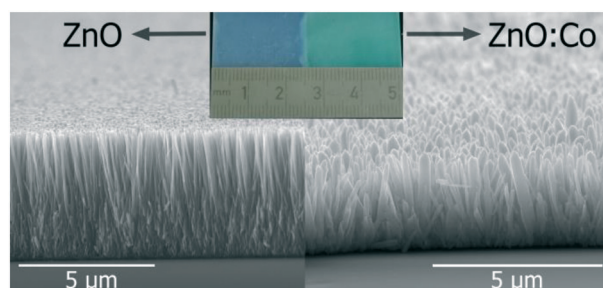
PAPERS

1938

Rapid low-temperature solution growth of ZnO:Co nanorod arrays with controllable visible light absorption

Jan Kegel,* Jennifer Halpin, Fathima Laffir, Ian M. Povey and Martyn E. Pemble

A rapid solution-based growth method for the low-temperature deposition of strongly visible light absorbing ZnO:Co nanorods has been developed.

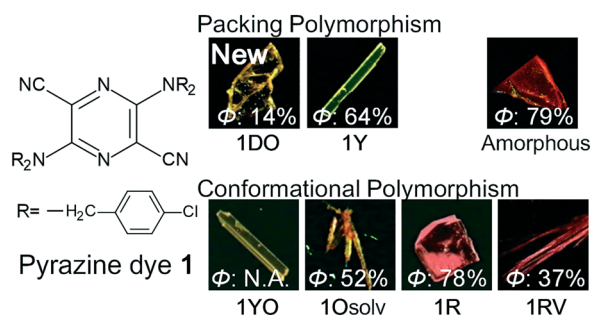


1947

Tuning of fluorescence efficiency via local modification of the crystal structure by benzyl groups in polymorphs of a pyrazine dye

Yoko Akune, Risa Hirose, Natsuko Endo, Sayumi Hatano, Takuya Hosokai, Hiroyasu Sato and Shinya Matsumoto*

Comparison of a new polymorph with other solid forms indicated that benzyl groups influenced the fluorescence efficiency of 2,5-diamino-3,6-dicyanopyrazine.

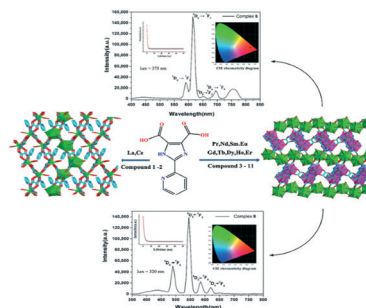


1953

Self-assembly of lanthanide(III) coordination polymers from a bifunctional 2-(pyridin-2-yl)-1H-imidazole-4,5-dicarboxylate ligand with the assistance of oxalate: syntheses, structures, luminescence, and magnetic properties

Li-Yang Zhang, Li-Ping Lu,* Miao-Li Zhu and Si-Si Feng*

Eleven lanthanide coordination polymers were prepared, with Eu(III) and Tb(III) complexes showing very strong reddish-orange and green emission bands, respectively.

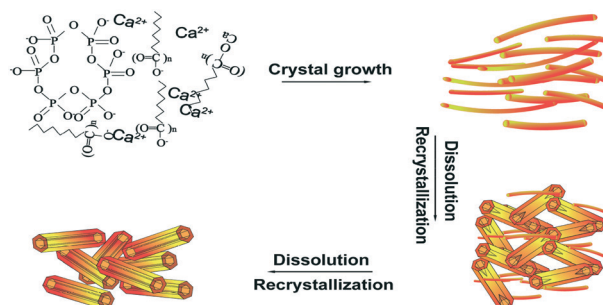


1965

Ultralong hydroxyapatite microtubes: solvothermal synthesis and application in drug loading and sustained drug release

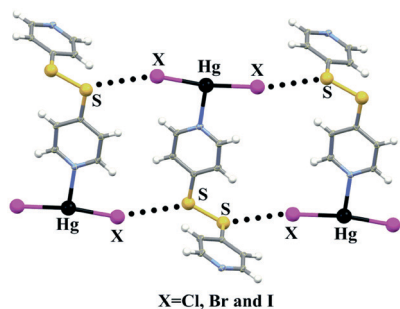
Yong-Gang Zhang, Ying-Jie Zhu,* Feng Chen,* Tuan-Wei Sun and Ying-Ying Jiang

One-step solvothermal synthesis of monodisperse, single-crystalline, ultralong hydroxyapatite microtubes is reported.



PAPERS

1974



Unraveling the dual character of sulfur atoms in a series of Hg(II) coordination polymers containing bis(4-pyridyl)disulfide

Alireza Azhdari Tehrani, Hosein Ghasempour, Ali Morsali,* Antonio Bauzá, Antonio Frontera and Pascal Retailleau

A dual behavior of the S atom, as a Lewis acid and as an electron donor, is observed in Hg(II) coordination compounds.

CORRECTION

1982

Correction: Synthesis and chlorine sensing properties of nanocrystalline hierarchical porous SnO₂ by a phenol formaldehyde resin-assisted process

Hui Wang, Jiaqiang Xu* and Qingyi Pan