

CrystEngComm

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

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Cover

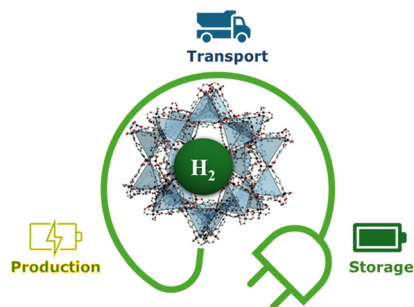
See Eduardo Schott *et al.*, pp. 4425–4442.
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HIGHLIGHTS

4425

MOFs as a partner for the H₂ industry

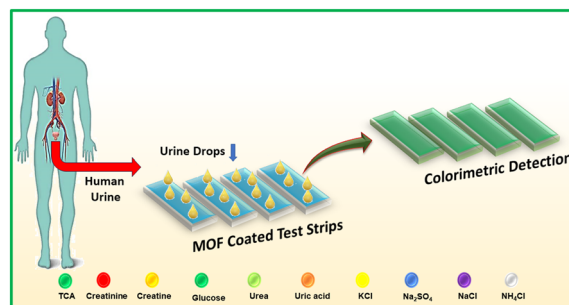
Javier Salazar-Muñoz, Yazmin Arellano, Vanesa Roa, Gabriel Bernales, Diego Gonzalez, Yoan Hidalgo-Rosa, Ximena Zarate and Eduardo Schott*



4443

MOFs in healthcare diagnostics: shaping the future of biomedical test strips

Vibhav Shukla and Kafeel Ahmad Siddiqui*



Environmental Science: Atmospheres

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and inspiring new ideas

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Fundamental questions
Elemental answers



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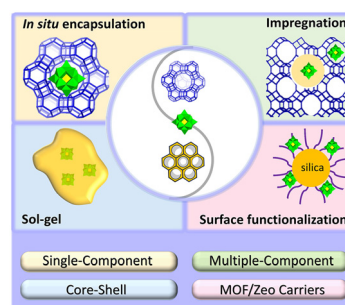


HIGHLIGHTS

4453

Structural engineering of POM-based composite materials: zeolite and silica as supports

Chang Sun, Wenli Hao, Yutong Han, Zhihan Chang and Xiuli Wang*

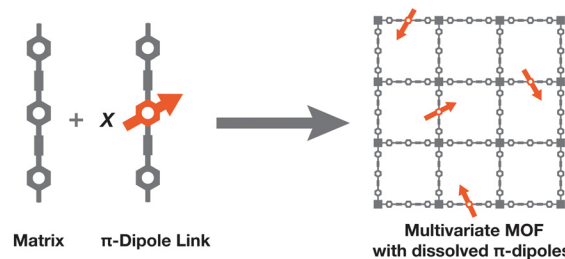


COMMUNICATION

4463

A multivariate library of zirconia metal-organic frameworks with dissolved *p*-nitroaniline dipoles and concentration-dependent optical and dielectric response

Kyle R. Langlois, Yangyang Wang, Fnu Joshua, Wesley J. Newsome, Lei Zhai, James K. Harper and Fernando J. Uribe-Romo*



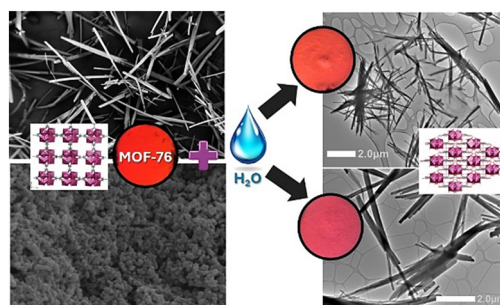
Hypsochromic Coupling Meyer-Neldel Compensation

PAPERS

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Time dependence of water-induced phase transition in nano- and microcrystalline Eu³⁺-doped MOF-76(Y): different luminescence responses with memory effect

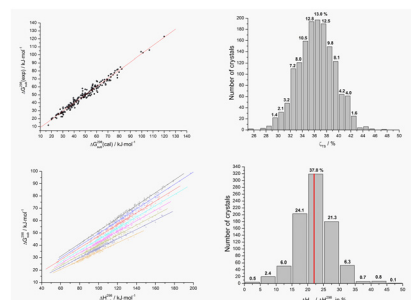
Zulma L. Moreno Botello, Marcos Illescas, Beatriz C. Barja, Sebastian E. Collins, Griselda E. Narda and Maria C. Bernini*



4488

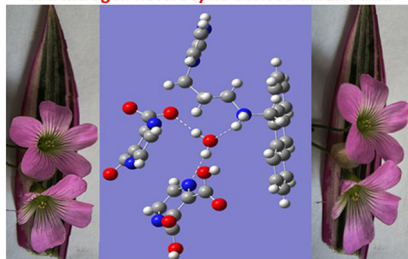
Molecular crystals sublimation: structural clusterization of the database as an approach for prediction of the thermodynamic functions

German L. Perlovich*



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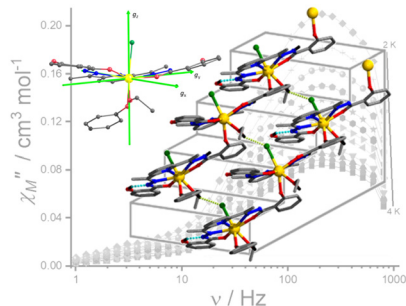
Different facet of a binary and a ternary assembly of a nitrogen heterocycle derived dibasic acid



Ternary assembly of pyrazine 2,3-dicarboxylic acid with a ditopic amine

Abhay Pratap Singh and Jubaraj Bikash Baruah*

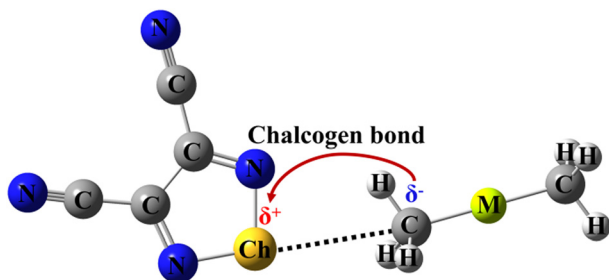
4508



Ladder-type 1D coordination polymer of Dy(III): synthesis and investigation of magnetic behaviour

Naushad Ahmed,* Rizwan Nabi, Xiaoguang Zhang and Donald J. Darensbourg*

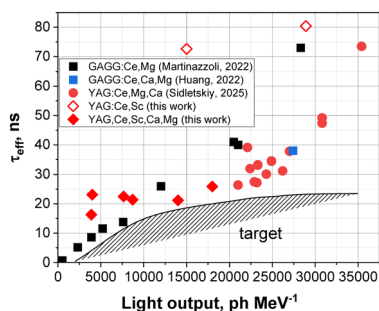
4516



Methyl groups as unconventional Lewis bases in chalcogen bonding

Hangyu Zhou, Xin Wang, Xiulin An, Qingzhong Li* and Sean A. C. McDowell*

4528



Acceleration of scintillation response in Sc,Ca,Mg-codoped YAG:Ce crystals

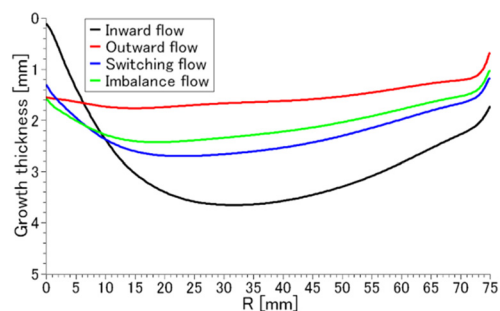
Ia. Gerasymov, S. Tkachenko, D. Kurtsev, D. Kofanov, O. Viahin, P. Maksimchuk, I. Rybalka, B. Grynyov, J. Delenne, L. Martinazzoli, L. Roux, E. Auffray, A. Padmanaban and O. Sidletskiy*



4539

Dynamic deformation modeling for the interfaces of growth, etching, and deposition under switching flow in TSSG-SiC growth

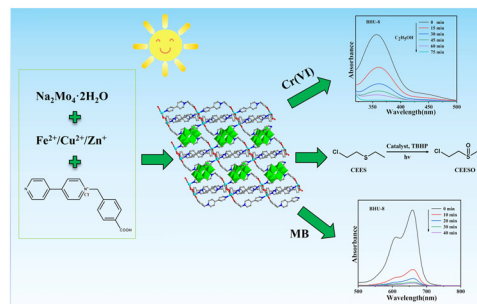
Xin Liu,* Zhicheng Guan, Tomoaki Furusho, Kentaro Kutsukake, Shunta Harada and Toru Ujihara



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Modulating central metals in 2D POMOFs for enhanced photocatalytic reduction of Cr(VI), oxidation of CEES and decolorization of MB

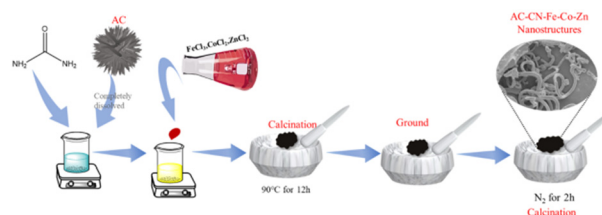
Guang-yang Zhang, Ying Sun, Zhong Zhang* and Xiu-li Wang*



4555

A novel magnetic Fe-Co-Zn composite as an effective and recyclable adsorbent for the removal of dyes from wastewater

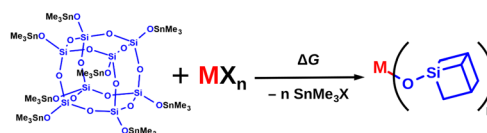
Yali Fang, Qiong Wu, Xin Ma and Zongli Ren*



4568

Thermodynamics of the condensation of the Si₈O₂₀(SnMe₃)₈ building block with M-X (M = B, Al, Si, P, Ti, V, Zn, Sn, Sb, X = Cl, Me, Et) precursors by DFT-D3 calculations

Martin Kejik, Hugo Semrad, Ales Styskalik and Jiri Pinkas*



BCl₃ PCl₃ VOCl₃ POCl₃ AlCl₃ Me₃SiCl SbCl₃ ZnCl₂
AlMe₃ SiCl₄ TiCl₄ VCl₄ AlCl₄⁻ ZnEt₂ Cp₂TiCl₂ SnCl₄

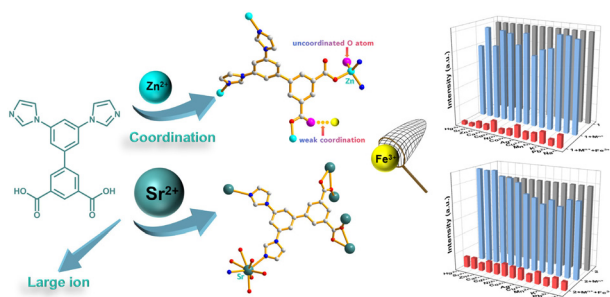
SPONTANEOUS

UNREACTIVE



PAPERS

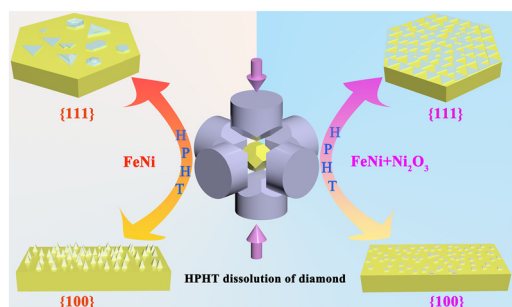
4582



Central metal ion of MOFs modulates the fluorescence detection of Fe³⁺

Haitao Liu, Senlin Li, Bo Zhao, Yanan Gu, Qiaozhen Sun* and Bingguang Zhang*

4591



High-pressure preparation of high-roughness diamond single crystals and analysis of surface morphology

Tengteng Shen, Wenhao Wang, Liangchao Chen,* Zhuangfei Zhang, Yuewen Zhang, Qianqian Wang, Biao Wan, Yadong Li, Chunlei Du and Chao Fang*

CORRECTION

4603

Correction: Synergistic crucible design and thermal-flow management for enhanced 4-inch AlN single crystal PVT growth: a combined numerical and experimental investigation

Wenliang Li, QianLing Liu, Jun Tan, Guangze He, Yingmin Wang, Zhenhua Sun, Baikui Li and Honglei Wu*

