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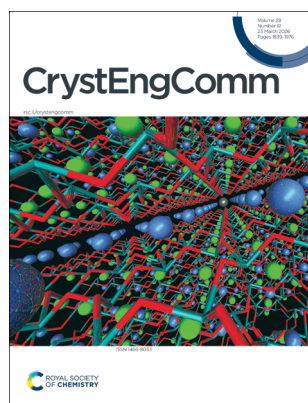
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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ISSN 1466-8033 CODEN CRECF4 28(12) 1839-1976 (2026)



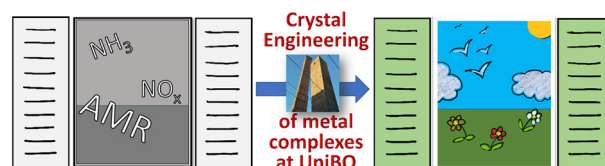
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HIGHLIGHTS

1846

Tackling environmental and health issues via crystal engineering of metal complexes

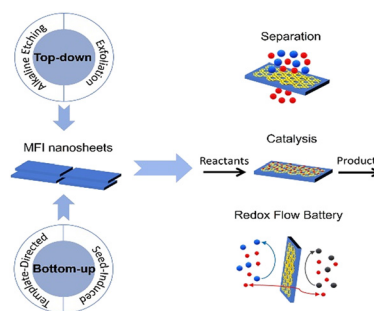
Laura Contini, Fabrizia Grepioni* and Dario Braga



1861

Advances in the fabrication of MFI zeolite nanosheets for separation and energy applications

Junhui Cai, Yidan Ouyang, Chen Nie, Yongxuan Wang, Ruilan Xu,* Xintu Lin and Yong Peng*



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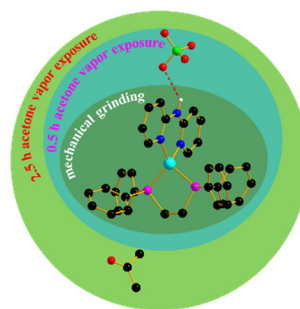
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1877

Tricolor reversible luminescence switching of a mechano-/vapo-chromic mononuclear Cu(I) complex

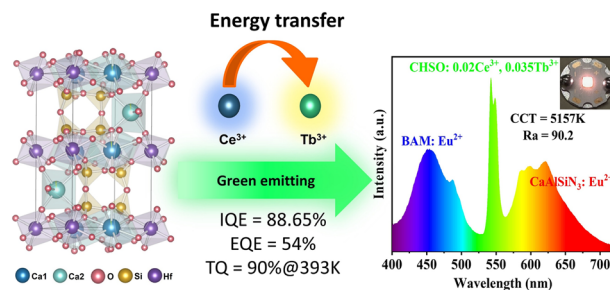
Zhen Mao, Hai-Jian Li, Xue He, Sui-Jun Liu, He-Rui Wen, Li-Hua He and Jing-Lin Chen*



1883

Preparation of $\text{Ca}_2\text{HfSi}_4\text{O}_{12}:\text{Ce}^{3+}, \text{Tb}^{3+}$ green phosphor with high quantum efficiency and luminous thermal stability for WLED application

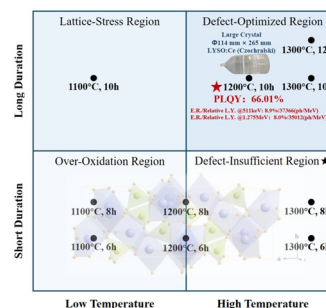
Jiaqi Zhang, Zhiyu Qin, Langping Dong,* Baiqi Shao, Jingshan Hou* and Yongzheng Fang*



1893

Effect of annealing on lattice engineering and luminescence in $\text{LYSO}:\text{Ce}$ scintillators

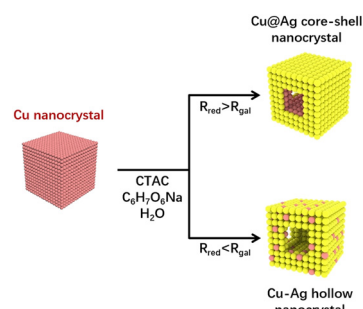
Ke Xu, Pan Hu, Qi Zhang, Qing He, Qingyi Liu, Yanan Wang, Fazheng Huang, Jing Leng, Xiaowei Lin, Yongcai Shi, Kunfeng Chen,* Lingyun Li,* Juqing Di,* Shaowei Feng, Qiping Du, Haiyong Ni and Dongfeng Xue*



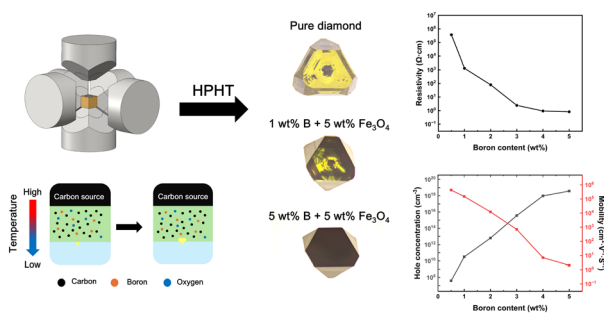
1905

Ultrafast formation of hollow $\text{Cu}@\text{Ag}$ core-shell nanocrystals and their surface-enhanced Raman scattering properties

Junbing Wang, Hao Wang, Bin Liu, Shinya Maenosono* and Jianhui Yang*



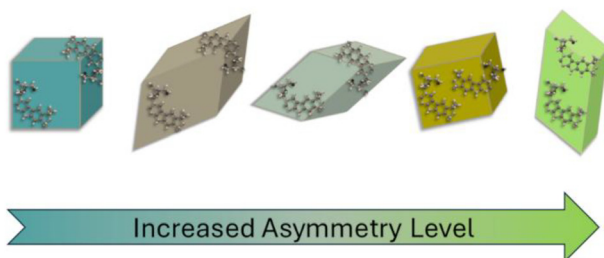
1913



Effect of B–O co-doping on the properties of HPHT diamond single crystals in the Fe–Ni–C system

Ziqi Wang, Dan Xu, Jiaqi Liu, Zhiwen Wang,* Wenlei Gao, Bowei Li, Aokai Xu, Hongan Ma,* Youjin Zheng* and Xiaopeng Jia*

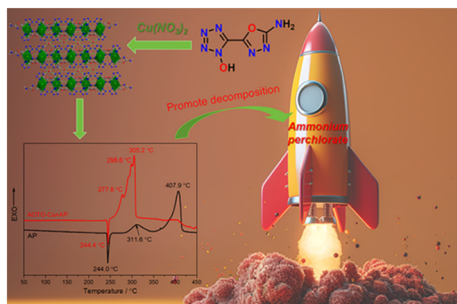
1921



Quantitative determination of approximate centrosymmetry in *P1* organic crystals

Inbal Tuvi-Arad* and Gil Alon*

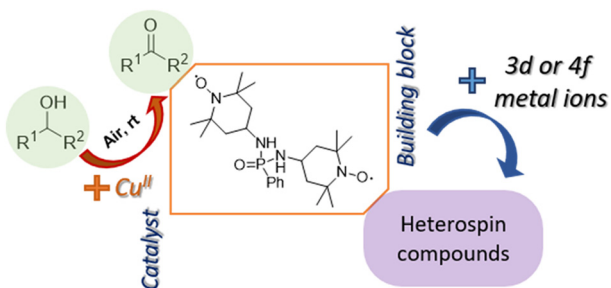
1931



MOFs with hydrazide and 3-amino-1,2,4-oxadiazole-substituted hydroxytetrazole as novel nitrogen-rich ligands: a new class of energetic materials for ammonium perchlorate decomposition catalysis

Feng Yang, Zhiwei He,* Rongzheng Zhang and Quan Wang

1938



Coordination compounds based on a phosphonic diamide-TEMPO diradical and Cu^{II}, Nd^{III}, Eu^{III} and Tb^{III} ions: synthesis, magnetic properties and application in the aerobic oxidation of allylic and benzylic alcohols

Yolanda Navarro, Stéphane Soriano, Henrique de Castro Silva Jr., María José Iglesias, Guilherme P. Guedes* and Fernando López Ortiz*



1954

Synthesis, phase evolution pathways, and electrochemistry of phosphate-based cathode materials obtained using hydro/solvothermal treatment from simple oxide precursors

Maksim O. Nestruev,* Ivan V. Mikheev, Igor A. Presniakov, Sergey Ya. Istomin, Oleg A. Drozhzhin and Evgeny V. Antipov



1965

Zinc-rich cathode material ZnMn_2O_4 for high-voltage zinc-ion batteries

Yuqi Mei, Ruiguang Li, Dejian Liu, Zijian Zhan, Cheng Zheng* and Shaoming Huang*

