

CrystEngComm

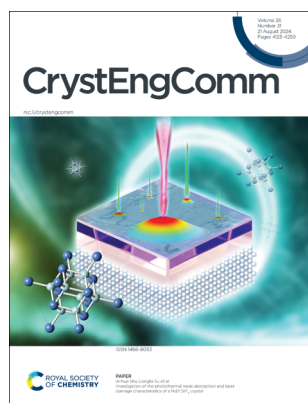
A journal at the forefront of the design and understanding of solid-state and crystalline materials

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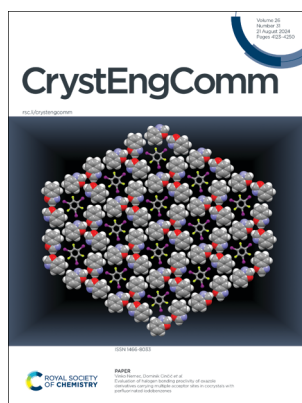
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See Anhua Wu, Liangbi Su *et al.*, pp. 4130–4136.
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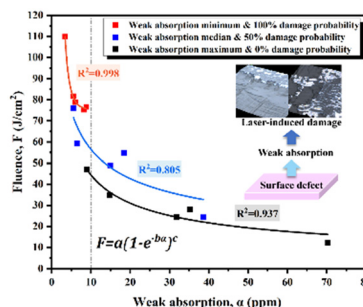
Inside cover
See Vinko Nemeč, Dominik Cinčić *et al.*, pp. 4137–4145.
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PAPERS

4130

Investigation of the photothermal weak absorption and laser damage characteristics of a Nd,Y:SrF₂ crystal

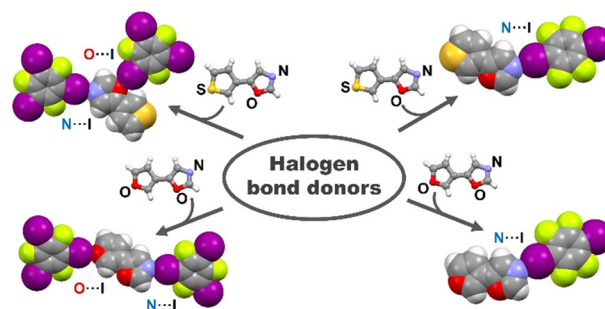
Zhuowei Lu, Zhonghan Zhang, Dapeng Jiang, Huamin Kou, Bo Zhang, Ziyuan Xu, Yuanan Zhao, Anhua Wu* and Liangbi Su*



4137

Evaluation of halogen bonding proclivity of oxazole derivatives carrying multiple acceptor sites in cocrystals with perfluorinated iodobenzenes

Ruder Sušanĵ, Nikola Bedeković, Sara Cerovski, Nea Baus Topić, Vinko Nemeč* and Dominik Cinčić*



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4146

Structure and electrical properties of Cu, Bi and Mn co-doped $K_{0.5}Na_{0.5}NbO_3$ single crystals grown by the seed-free solid state crystal growth method

Yuan Xu, Minhong Jiang,* Xinkang Liu, Yujiao Zeng, Shixuan Cao, Yujiao Ouyang, Jianwei Song and Guanghui Rao*



4156

Migration paths of the Na^+ -ion diffusion for minerals of the lovozerite group: crystallochemical and DFT modeling

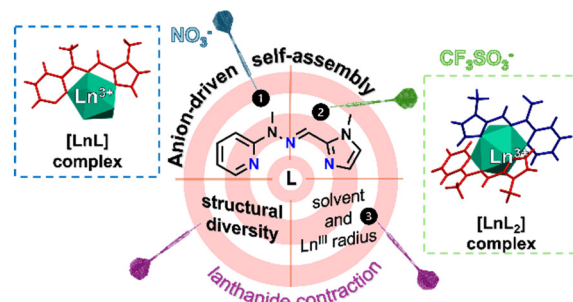
Natalia A. Kabanova

Name of mineral	Crystallographic type of the unit	Tilings								Tiling	
Combedite Livinskite Lovozerite Forsmanite Zhdanovite	spinel $2A_2B_2X_4$	$[0^2\bar{1}]$ t_{maka}									
Titanite	triclinic $2A_2B_2X_4$	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}		
Kapornite Kuznetsovite Zhdanovite	triclinic $2A_2B_2X_4$	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	
Insardite	triclinic $2A_2B_2X_4$	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	
Kondrinite	triclinic $2A_2B_2X_4$	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	$[0^2\bar{1}]$ t_{cub}	

4167

Crystal engineering of monometallic lanthanide(III) supramolecular systems within the N_3 -tridentate hydrazone Schiff-base ligand

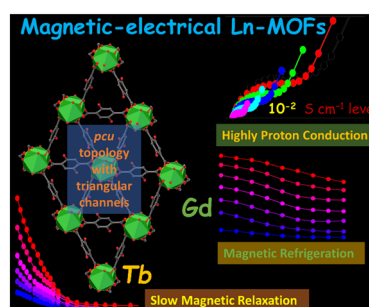
Dominika Prętko,* Dawid Marcinkowski, Agnieszka Siwiak, Maciej Kubicki, Giuseppe Consiglio, Violetta Patroniak and Adam Gorczyński*



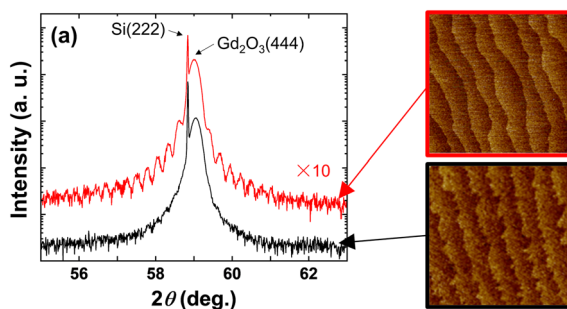
4181

Highly proton-conducting lanthanide metal-organic frameworks featuring highly oxygenated ligands with slow magnetic relaxation or magnetocaloric effect

Shun-Yi Yang, Qian Zhang, Yang-Lu Zhang, Tie-Shen Tan, Junlun Zhu, Xiaodong Yang, Le Shi, Jiong Yang and Dong Shao*



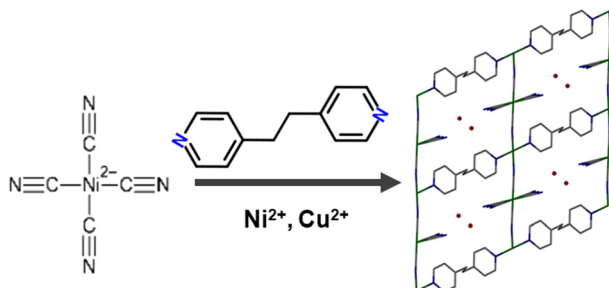
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Improving crystal quality of Er-doped Gd_2O_3 grown on a Si(111) substrate by inserting a bifunctional GdO_x layer

T. Inaba,* X. Xu, H. Omi, H. Yamamoto, T. Tawara and H. Sanada

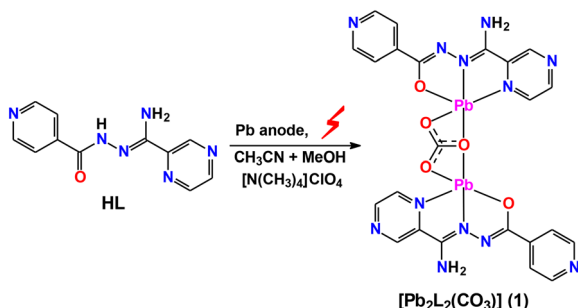
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Crystal engineering and sorption studies on CN- and dipyriddy-bridged 2D coordination polymers

Valoise Brenda Nguempeni Eloundou, Patrice Kenfack Tsobnang,* Theophile Kamgaing, Chiranjib Gogoi, Nieves Lopez-Salas and Susan A. Bourne*

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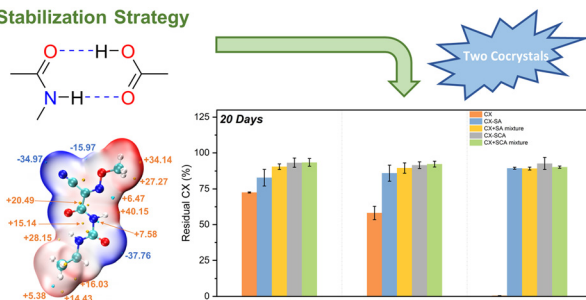


A lead(II)-*N'*-isonicotinoylpyrazine-2-carbohydrazonamide complex system as a converter of aerial carbon dioxide to carbonate under electrochemical conditions with the formation of a single-component white light-emitting phosphor

Ghodrat Mahmoudi,* Isabel Garcia-Santos,* Elena Labisbal, Alfonso Castiñeiras, Vali Alizadeh, Rosa M. Gomila, Antonio Frontera and Damir A. Safin*

4214

Stabilization Strategy



Chemical stabilization strategy for cymoxanil: synthesis and characterization of cocrystals with small organic acids

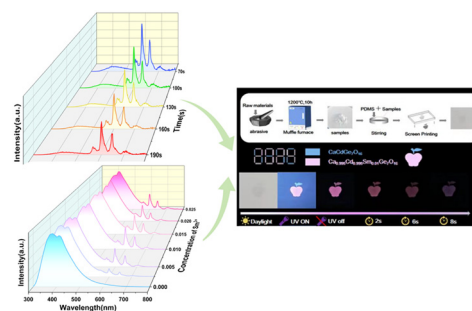
Mingzhu Yang, Zhouyu Jiang, Cunbin Du, Xiaowen Zhang and Mingliang Wang*



4223

Achieving tunable photoluminescence emission in $\text{CaCdGe}_7\text{O}_{16}:\text{Sm}^{3+}$ persistent luminescence phosphors for optical anti-counterfeiting

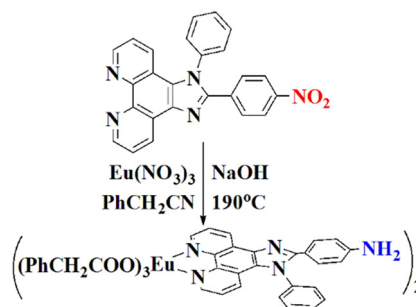
Zihui Li, Xiayu Li, Zhizhi Xiang, Zhen Guo, Xiaoli Wang,*
Zhenbin Wang, Mingjin Zhang and Weisheng Liu*



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Synthesis, structure and luminescence of two europium complexes of diphenylimidazophenanthrolines

Ling-Fei Yang, Zhi-Peng Zhang, Yu-Lin Li, Shu-Ting Cai,
Ze-Yan Li, Yi-Ran Shen, Zi-Ying Zhang, Jia-Yu Lin,
Yong-Cong Ou* and Jian-Zhong Wu*



4241

Construction of a high-performance flexible hybrid capacitor at extreme working temperature ($-20\text{ }^{\circ}\text{C}$)

Xingjie Sun, Xiang Wu* and Lixian Sun*

