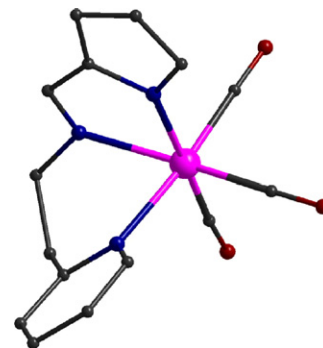


Contents

Antonio Shegani, Charalampos Triantis, Christos Kiritsis, Catherine Raptopoulou, Vassilis Psycharis, Maria Pelecanou, Ioannis Pirmettis, Minas Papadopoulos

Inorganic Chemistry Communications 63 (2016) 1–4

Neutral *fac*-[Re(NNN)(CO)₃] complexes with NNN tridentate ligands containing pyrrole or indole

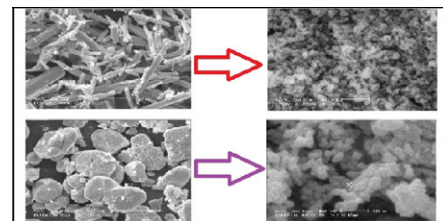


Fatemeh Shahangi Shirazi, Kamran Akhbari

Inorganic Chemistry Communications 63 (2016) 5–10

Linkers and coordinated solvent molecules; the two effective factors on formation of zinc oxide nanoparticles from metal–organic frameworks

The host and the apohost frameworks of two nano-porous MOFs with similar linkers were used for preparation of ZnO nanoparticles. The influence of guest molecules, coordinated solvent molecules and linker ligands on their morphology and agglomeration process was studied.

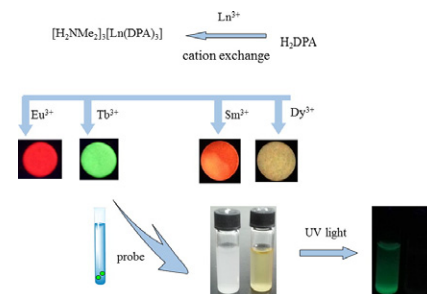


Han Weng, Bing Yan

Inorganic Chemistry Communications 63 (2016) 11–15

Lanthanide coordination polymers for multi-color luminescence and sensing of Fe³⁺

Luminescent lanthanide coordination polymers [H₂NMe₂]₃[Ln(DPA)₃] are synthesized, whose multi-color can be tuned and even white color luminescence can be integrated. Besides, [H₂NMe₂]₃[Tb(DPA)₃] shows selective fluorescent quenching effect for Fe³⁺.

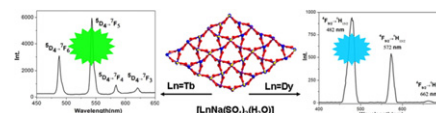


Bin Zhai, Zhongyi Li, Chi Zhang, Fuli Zhang, Xiangfei Zhang, Fuqiang Zhang, Guangxiu Cao, Suzhi Li, Xiaoyan Yang

Inorganic Chemistry Communications 63 (2016) 16–19

Three rare Ln–Na heterometallic 3D polymers based on sulfate anion: Syntheses, structures, and luminescence properties

Three 3D $[\text{LnNa}(\text{SO}_4)_2(\text{H}_2\text{O})]$ ($\text{Ln} = \text{Gd}$ (**1**); Tb (**2**); Dy (**3**)) polymers were reported as the first example of Ln–Na heterometallic sulfates. These compounds display excellent thermal stability. The strong luminescence in the green light ($^5\text{D}_4 \rightarrow ^7\text{F}_5$) region for **2** and blue light ($^4\text{F}_{9/2} \rightarrow ^6\text{H}_{15/2}$) region for **3** indicates that they may be outstanding candidates for green or blue fluorescent materials.

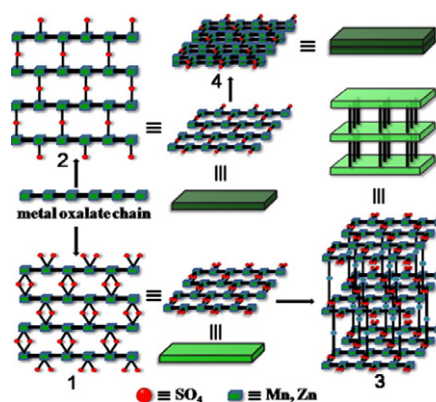


Furong Guo, Kang Xiao, Meng Yang, Lindong Luan, Zhien Lin

Inorganic Chemistry Communications 63 (2016) 20–23

Solvent-free synthesis of new metal sulfate-oxalates containing chain-like building blocks

Four open-framework metal sulfate-oxalates were synthesized under solvent-free conditions. These compounds display hcb, mog, and kgd topologies. Possible build-up processes for the formation of these hybrid frameworks were proposed.

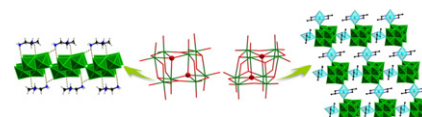


Xiuhua Wang, Qing Han, Lijuan Chen, Junwei Zhao

Inorganic Chemistry Communications 63 (2016) 24–29

Hydrothermal syntheses, crystal structures and characterization of two new 1-D and 2-D inorganic–organic hybrid polyoxomolybdates $[\text{H}_2\text{dap}]_2[\alpha\text{-Mo}_8\text{O}_{26}] \cdot 2\text{H}_2\text{O}$ (**1**) and $[\text{Cu}(\text{dap})_2]_2[\beta\text{-Mo}_8\text{O}_{26}]$ (**2**) (dap = 1,2-propanediamine) have been hydrothermally synthesized and structurally characterized.

Two 1-D and 2-D inorganic–organic hybrid polyoxomolybdates $[\text{H}_2\text{dap}]_2[\alpha\text{-Mo}_8\text{O}_{26}] \cdot 2\text{H}_2\text{O}$ (**1**) and $[\text{Cu}(\text{dap})_2]_2[\beta\text{-Mo}_8\text{O}_{26}]$ (**2**) (dap = 1,2-propanediamine) have been hydrothermally synthesized and structurally characterized.

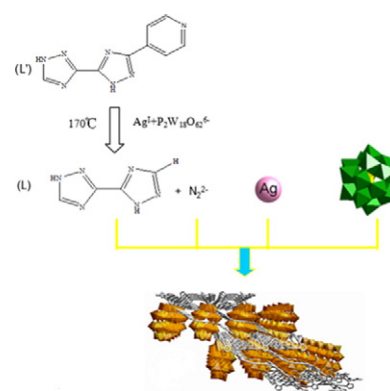


Xiuli Wang, Xing Rong, Hongyan Lin, Jingjing Cao, Guocheng Liu, Zhihan Chang

Inorganic Chemistry Communications 63 (2016) 30–34

A novel Wells–Dawson polyoxometalate-based metal–organic framework constructed from the uncommon in-situ transformed bi(triazole) ligand and azo anion

A novel 3D Wells–Dawson polyoxometalate (POM)-based metal–organic framework (MOF) constructed from the in-situ transformed bi(triazole) and azo ligands was obtained, which represents the first example of POM-based MOFs containing azo ligand.



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