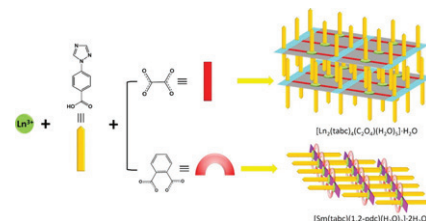


Contents

**Jun-Xing Zhong, Hong-Hong Zhang,
Xiang Gao, Yong-Cong Ou, Jian-Zhong Wu,
Yue-Peng Cai**

Inorganic Chemistry Communications 71
(2016) 1–4

Crystal structures and luminescent properties modulated by auxiliary ligands for series of lanthanide coordination polymers with triazole-benzoic acid

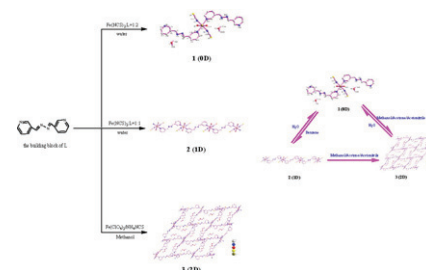


**Bin Zhai, Zhongyi Li, Bin Ding,
Fuqiang Zhang, Xiangfei Zhang, Ying Liu,
Guangxiu Cao**

Inorganic Chemistry Communications 71
(2016) 5–8

Solvent-controlled synthesis and reversible dynamic structural conversions of a series of iron(II) coordination complexes

Three different iron(II) coordination complexes 1 (0D), 2 (1D) and 3 (2D) were reported as the first example of solven-controlled synthesis and reversible dynamic structural conversion. Variable-temperature magnetic susceptibility data of 2–3 reveal that both complexes show weak anti-ferromagnetic interactions.

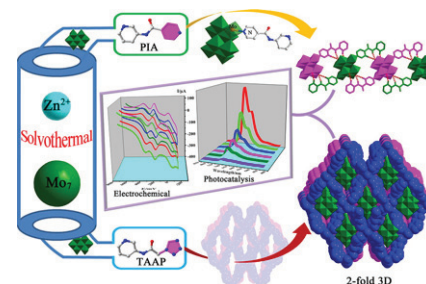


**Xing Rong, Hongyan Lin, Danna Liu,
Xiang Wang, Guocheng Liu, Xiuli Wang**

Inorganic Chemistry Communications 71
(2016) 9–14

Solvothermal synthesis, structures and properties of two new octamolybdate-based compounds with tetrazole- and pyridyl-containing asymmetric amide ligands

Two octamolybdate-based compounds with different structures have been solvothermally synthesized by only using two different N-donor amide ligands. Compound **1** features a 0D $\text{H}_4\{[\text{Mo}_8\text{O}_{26}](\text{PIA})_2\}$ cluster containing Mo–N bonds, which further interlinked by hydrogen bonding interaction to yield a 3D supramolecular structure. Compound **2** is a two-fold interpenetrating 3D network with $[\text{Mo}_8\text{O}_{26}]^{4-}$ anions as templates and possess 4-connected *hvt* net.

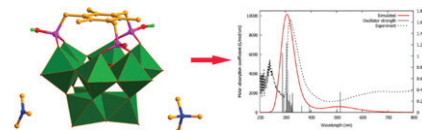


Shi-Zheng Wen, Wei-Qiu Kan, Dong-Lei Xu

Inorganic Chemistry Communications 71 (2016) 15–18

A novel organotriphosphoryl polyoxomolybdate: Synthesis, crystal structure, and experimental and theoretical investigation of the absorption spectra

A novel organotriphosphoryl polyoxomolybdate has been prepared hydrothermally, where its absorption spectrum has been investigated experimentally and theoretically.

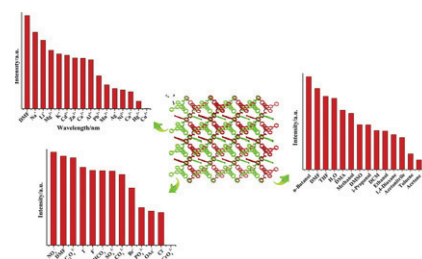


Jun Wang, Fei Yuan, Huai-Min Hu, Bing Xu, Gang-Lin Xue

Inorganic Chemistry Communications 71 (2016) 19–22

A luminescent coordination polymer with potential active site for the sensing of metal cation, anion and nitrobenzene explosive

A new 1D Zn(II)-based coordination polymer (CP) with potential active sites based on 2-(4,6-di(pyridine-2-yl)pyridine-2-yl)pyridine (pdp) and 1,3,5-benzenetribenzoic acid (H_3BTB), $\{[Zn(HBTB)(pdp)] \cdot H_2O\}$ (**1**), has been synthesized solvothermally. Luminescence properties of **1** were investigated, and the results show that **1** can work as highly sensitive sensors to Cu^{2+} , CrO_4^{2-} and nitrobenzene (NB) explosive.

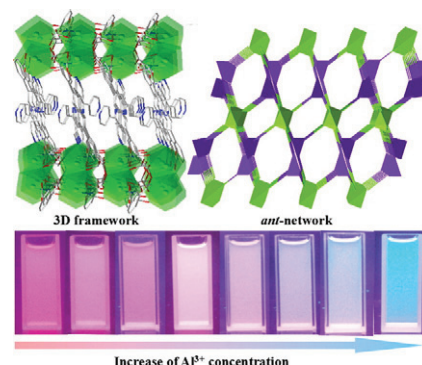


Bin Zhai, Zhong-Yi Li, Zhi-Lei Wu, Jian-Zhong Cui

Inorganic Chemistry Communications 71 (2016) 23–26

A novel europium metal-organic framework as luminescent probe for detecting Al^{3+}

A novel three-dimensional europium metal-organic framework (Eu-MOF), $[Eu(L)(OAc)(DMA)]_n$ (**1**), have been successfully obtained based on a newly designed ligand 4'-(3,5-dicarboxyphenyl)-4,2':6',4"-terpyridine (H_2L). The luminescent studies reveal that **1** can detect Al^{3+} quickly with high sensitivity and selectivity. Importantly, it displays high thermal and solvent stability.

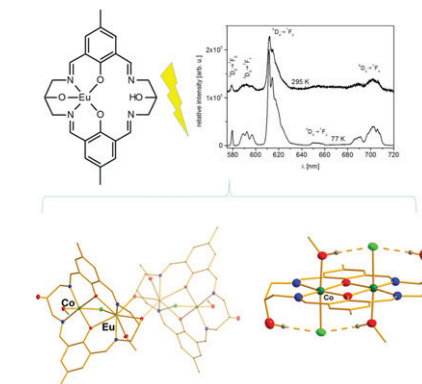


Małgorzata Hołyńska, Paula Gawryszewska, Jerzy Lisowski

Inorganic Chemistry Communications 71 (2016) 27–31

Tetranuclear Eu(III)-Co(II) complex of an N_4O_4 macrocycle

Reactivity of an Eu(III) complex of the deprotonated form of a macrocyclic Schiff base is reported leading to Eu(III), Eu(III)-Co(II) and Co(II) complexes.



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