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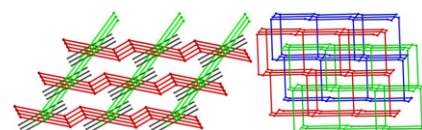
Short Communications

Min-Le Han, Ying Zhao, Dong-Sheng Li, Ya-Pan Wu, Lu-Fang Ma

Inorganic Chemistry Communications 52 (2015) 1–4

Bis(pyridyl)-based ligands driven Ni^{II} entangled metal-organic frameworks: From a new 1-D + 2-D → 3-D polythreading motifs to a rare 3-fold interpenetrating network

Assembly of Ni^{II} salt and 4-methylphthalic acid with bpa or bpe affords two complexes. The significant difference between **1** and **2** isolated under the same conditions must be ascribed to the nature of N-donor auxiliary ligands.

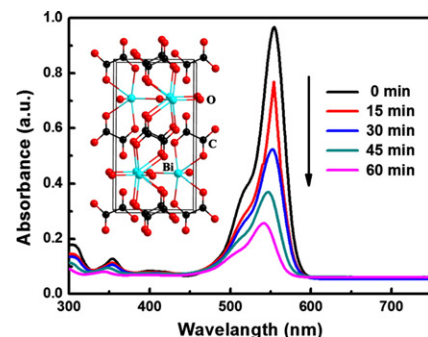


Ke Xiao, Na Tian, Yuxi Guo, Hongwei Huang, Xiaowei Li, Yihe Zhang

Inorganic Chemistry Communications 52 (2015) 5–8

Facile synthesis, electronic structure and photocatalytic activity of a novel Bi-based hydroxyl oxalate Bi(C₂O₄)OH

A novel Bi-based hydroxyl oxalate Bi(C₂O₄)OH has been successfully synthesized via a facile aqueous precipitation route, and its photocatalytic activity was investigated for the first time.

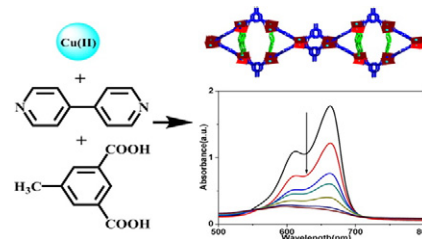


Bo Xu, Zhiming Chen, Pengfei Zhi, Guangning Liu, Cuncheng Li

Inorganic Chemistry Communications 52 (2015) 9–11

Structure and photocatalytic property of a new Cu(II) based framework with *jsm* topology

A new Cu(II)-based coordination polymer exhibiting a 3D network with *jsm* topology and showing interesting degradation ability over methyl blue is reported.

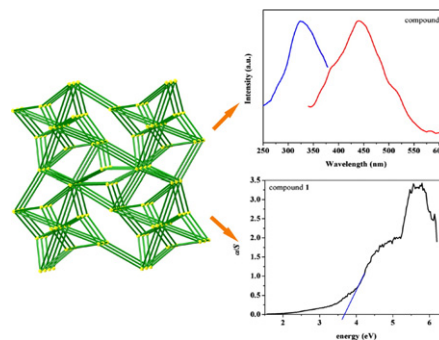


**Shi-Zheng Wen, Wei-Qiu Kan,
Hua-You Hu, Yu-He Kan**

Inorganic Chemistry Communications 52
(2015) 12–15

A novel three-dimensional chiral (3,8,9)-connected framework: Synthesis, structure, optical band gap and photoluminescence

A novel coordination polymer with chiral highly connected structure has been prepared under hydrothermal condition, where its optical band gap and photoluminescent property have also been studied.

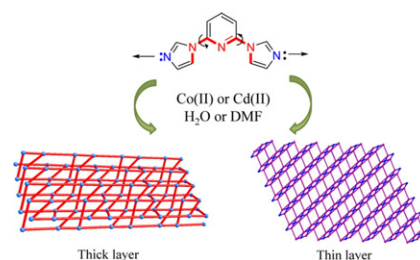


Jhen-Yi Lee, Jing-Yi Lee, Hon Man Lee

Inorganic Chemistry Communications 52
(2015) 16–19

Novel two-dimensional Co(II) and Cd(II) coordination polymers with intriguing net topologies

Three new two-dimensional coordination polymers are presented. $[M(2,6\text{-bip})(1,4\text{-bdc})]$ (**1**: $M = \text{Co}$; **2**: $M = \text{Cd}$; 2,6-bip = 2,6-bis(imidazole-1-yl)pyridine; 1,4-bdc = 1,4-benzenedicarboxylate) exhibit the first example of a 2D 4-connected net of 6^6 topology. The framework in $[\text{Cd}(2,6\text{-bip})(1,4\text{-bdc}) \cdot x\text{DMF}]$ (**3**) is a rare 4,5-connected net of **4,5 L20** topology.

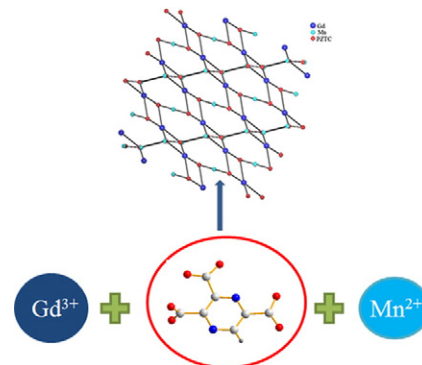


**Ayjamal Ablet, Dan Wang, Wei Cao,
Li-Cun Li, Xiang-Jun Zheng**

Inorganic Chemistry Communications 52
(2015) 20–22

Synthesis, structure and magnetic property of a Gd–Mn coordination polymer based on 2,3,5-pyrazinetricarboxylate

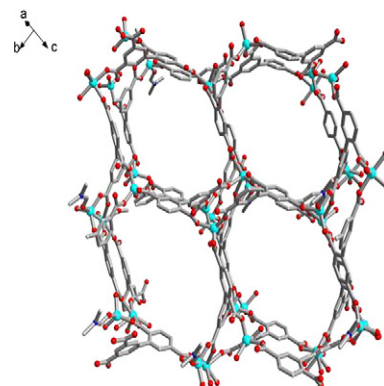
A new three-dimensional lanthanide–manganese metal–organic framework $[\text{Gd}_2\text{Mn}_3(\text{-PZTC})_4(\text{H}_2\text{O})_{12}] \cdot 5\text{H}_2\text{O}$ (PZTC = 2,3,5-pyrazinetricarboxylate) with a topology of $\{4;8^2\}_2\{4^2;6\}_2\{4^2;8^4\}_2\{4^3;6;8^4;10^2\}_2\{8\}$ was described. The magnetic coupling between two Mn^{2+} ions through double monatomic carboxylate–oxo bridges is weak antiferromagnetic, while that between Gd^{3+} and Mn^{2+} ions through the carboxylate group in *syn-anti*-bridging mode is negligible.



**Xiao-Nan Zhang, Xiao-Man Cao,
Miao HaoBei-Bei Kang,
Ming-Liang Gao, Zheng-Bo Han**

Inorganic Chemistry Communications 52
(2015) 23–26

Synthesis, crystal structure and photoluminescent properties of a 3D Zn(II) coordination polymer



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