

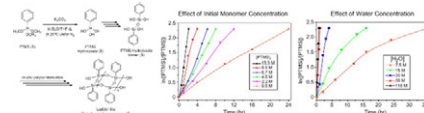
Contents

**Albert S. Lee, Seung-Sock Choi,
Kyung-Youl Baek, Seung Sang Hwang**

Inorganic Chemistry Communications 73
(2016) 7–11

Hydrolysis kinetics of a sol-gel equilibrium
yielding ladder-like polysilsesquioxanes

Hydrolysis kinetics of various
organoalkoxysilanes yielding ladder
polysilsesquioxanes was studied as a function
of monomer concentration and water
concentration.

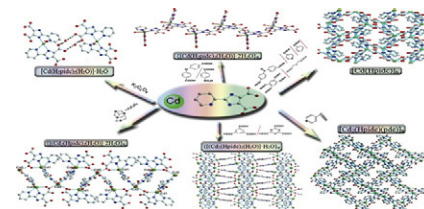


**Jie-Fang Fang, Xun-Lu, Le-Xin Fang, Yun Li,
Fei-Fei Zhu, Shu-Ting Huang,
Jing-Xiang Cheng, Shan-Tang Yue**

Inorganic Chemistry Communications 73
(2016) 57–63

Auxiliary ligand directed and temperature
controlled assembly of coordination polymers
of cadmium (II) sulfate and pyridine-2-yl-1H-
imidazole-4,5-dicarboxylic acid systems;
Syntheses, crystal structures, photoluminescent
properties

Six coordinate compounds obtained with
various auxiliary ligands.



**Wei-Ming Liao, Jian-Hua Zhang, Ya-Jun Hou,
Hai-Ping Wang, Mei Pan**

Inorganic Chemistry Communications 73
(2016) 80–89

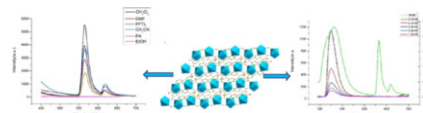
Visible-light-driven CO₂ photo-catalytic
reduction of Ru(II) and Ir(III) coordination
complexes

Rong-Fang Li, Tian Zhang, Xin-Fang Liu, Xun Feng

Inorganic Chemistry Communications 73 (2016) 170–173

A luminescent europium metal-organic framework probe for selective sensing of pollutant small organic molecules in high sensitivity

A highly luminescent 2D Eu-MOF was designed and successfully synthesized. Eu-MOF can sense some organic small molecules based on luminescence quenching effect. Interestingly, the visible red emission of Eu-MOF could be quantitatively quenched upon the addition of phenylamine at low concentrations.

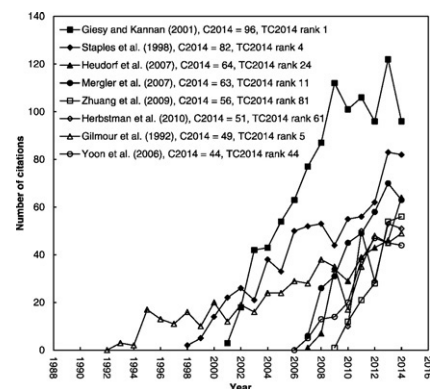


Yuh-Shan Ho, Hui-Zhen Fu

Inorganic Chemistry Communications 73 (2016) 174–182

Mapping of metal-organic frameworks publications: A bibliometric analysis

Publications of the seven most productive countries during 1991–2014. Article lives of the top ten articles ($C_{2014} > 140$).

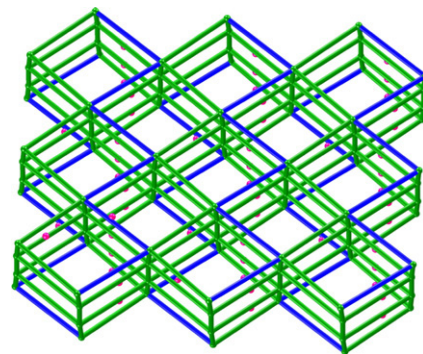


Xun Feng, Yi-Ling Sun, Rong-Fang Li, Tian Zhang, Nan Guo, Li-Ya Wang

Inorganic Chemistry Communications 73 (2016) 190–195

Two novel europium coordination polymers based on fluorine substituted and similar carboxylate ligands: Syntheses, structures and luminescence

Two isostructural 3D europium metal-organic frameworks incorporating similar Eu fluorine substituted carboxylate moiety have been synthesized and characterized. Each possesses 3D (6, 4)-connected pcu topology. Polymer 1 demonstrates tunable fluorescence signals in response to different solvates and also may be employed as a fluorescence ratiometric probe for pollutant cations.

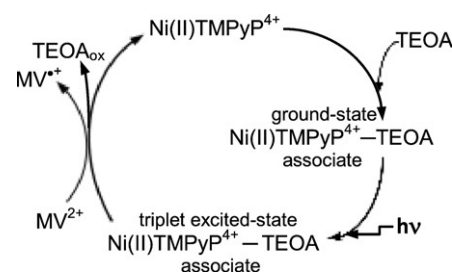


Máté M. Major, Ottó Horváth, Melinda A. Fodor, Lajos Fodor, Zsolt Valicsek, Günter Grampp, Alexander Wankmüller

Inorganic Chemistry Communications 73 (2016) 1–3

Photophysical and photocatalytic behavior of nickel(II) 5,10,15,20-tetrakis(1-methylpyridinium-4-yl)porphyrin

Water-soluble Ni(II)TMPyP⁴⁺ displayed characteristic fluorescence and proved to be an efficient photocatalyst in a visible light-driven one-step electron transfer between triethanolamine and methylviologen.

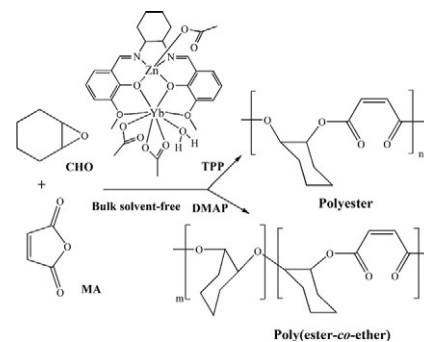


Qi Shi, Xiaohui Yang, Xingmei Zhang, Xuekun Li, Juxiang Yang, Xingqiang Lü

Inorganic Chemistry Communications 73 (2016) 4–6

Alternating copolymerization of CHO and MA catalyzed by the hetero-bimetallic Zn-Yb-Salen complex

Complex $[\text{Zn}(\text{L})(\mu_1\text{-OAc})\text{Yb}(\mu_1\text{-OAc})(\mu_2\text{-OAc})(\text{H}_2\text{O})]$ (**1**) characteristic of self-owned three OAc^- initiators around two active species is found to effectively catalyze bulk solvent-free copolymerization of CHO and MA, and its combination with TPP can produce perfectly alternating polyesters from controllable copolymerizations.

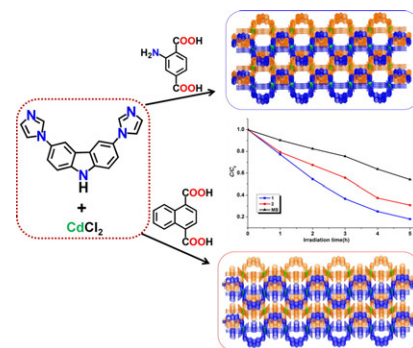


Hong-Jian Cheng, Yi-Feng Lu, Chen Li, Ye Shu, Ji Ma, Wen-hui Li, Rong-Xin Yuan

Inorganic Chemistry Communications 73 (2016) 12–15

Two Cd(II) coordination polymers based on 3,6-bis(imidazol-1-yl)carbazole: Syntheses, structures and photocatalytic properties

Two 3D coordination polymers $[\text{Cd}(2\text{-NH}_2\text{-1,4-BDC})(\text{bmcz})]_n$ and $[\text{Cd}(1,4\text{-NDC})(\text{bmcz})]_n$ were generated from solvothermal reactions of 2-amine-1,4-benzenedicarboxylic acid (2-NH₂-1,4-H₂BDC) or 1,4-naphthalenedicarboxylic acid (1,4-H₂NDC) with $\text{CdCl}_2 \cdot 2.5\text{H}_2\text{O}$ and 3,6-bis(imidazol-1-yl)carbazole (bmcz). Their solid state luminescent and photocatalytic properties were investigated.

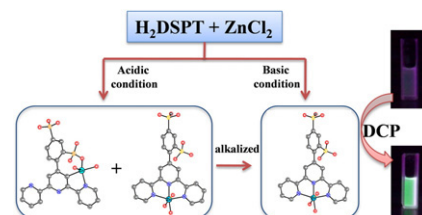


Chao-Jie Li, Jun-Gu Guo, Song-Liang Cai, Sheng-Run Zheng, Wei-Guang Zhang

Inorganic Chemistry Communications 73 (2016) 16–20

Synthesis of two Zn(II) compounds from terpyridine-based ligand: Structures, crystal-to-crystal transformation and detection of nerve agent mimics

Two new compounds based on a terpyridine-based ligand containing sulfo groups were obtained. The crystal-to-crystal transformation and the ability for detecting nerve agent mimics for selected compounds were explored.

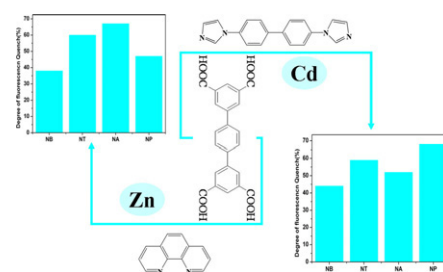


Xiao Zhang, Xiao-Qing Wang, Xiao-Xiao Wang, Zhi-jia Xue, Tuo-Ping Hu

Inorganic Chemistry Communications 73 (2016) 21–25

Fluorescent selectivity for small molecules of two coordination polymers based on a tetracarboxylate ligand

Two coordination polymers were synthesized with different metal ions and auxiliary ligand, complexes **1** and **2** show potential application to detect small organic molecules. Complex **1** exhibits efficient fluorescence quenching behavior upon addition of NP, and the complex **2** shows better fluorescence quenching behavior in NA.

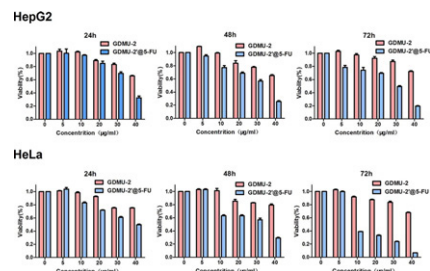


**Chuying Gu, Fumei Li, Baohong Li,
Jingwen Xu, Suzhen Yang, Miaomiao Luo,
Jianqiang Liu, Gan Liu**

Inorganic Chemistry Communications 73
(2016) 26–29

Rational synthesis of a porous polyhedral metal-organic framework carrier for controllable drug release

A new POMF was used as a drug vehicle of 5-Fluorouracil (5-FU) for drug delivery. The cargo release behavior and material degradation profile were also investigated under different pH.

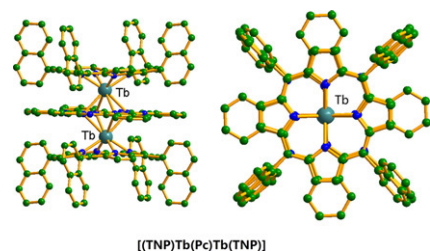


**Liguo Yang, Youzhu Yu, Xin Wang,
Mengliang Zhu, Qianqian Gao, Yuqiang Dai,
Yongzhong Bian**

Inorganic Chemistry Communications 73
(2016) 30–33

Mixed (phthalocyaninato) (tetranaphthylporphyrinato) terbium triple-decker complex: Synthesis, crystal structure and magnetic properties

Mixed (phthalocyaninato) (tetranaphthylporphyrinato) terbium triple-decker complex [(TNP)Tb(Pc)Tb(TNP)] (**1**) was synthesized and characterized by single crystal X-ray diffraction. The magnetic property of the complex was studied.

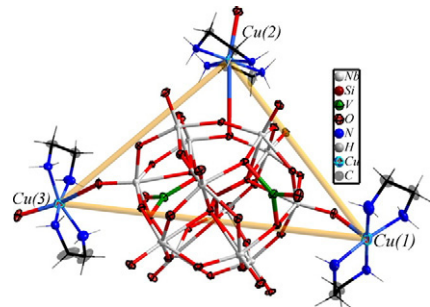


**Po-Han Lin, Hai-Yang Guo, Xiao Zhang,
Xiao-Bing Cui, Qi-Sheng Huo, Ji-Qing Xu**

Inorganic Chemistry Communications 73
(2016) 34–36

A new compound based on polyoxoniobates and three types of copper complexes

A novel polyoxoniobate tri-supported coordination complex has been hydrothermally synthesized and characterized.

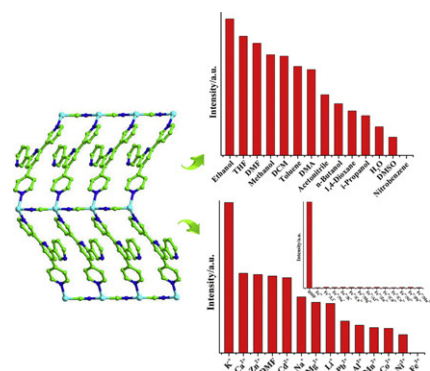


**Jun Wang, Fei Yuan, Huai-Ming Hu,
Chao Bai, Gang-Lin Xue**

Inorganic Chemistry Communications 73
(2016) 37–40

Nitro explosive and cation sensing by a luminescent 2D Cu(I) coordination polymer with multiple Lewis basic sites

A new 2D Cu(I)-based coordination polymer (CP) with Lewis basic sites-rich based on pytpy (pytpy = 4'-(4-pyridyl)-3,2':6',3''-terpyridine) ligand, [Cu(pytpy)(CN)](**1**), has been synthesized solvothermally. Luminescence properties of **1** were investigated, and the results show that **1** can work as highly sensitive sensors to nitro explosive and Fe³⁺. The demonstrated that **1** could be a useful luminescent sensor for metal ions and organic small molecules.

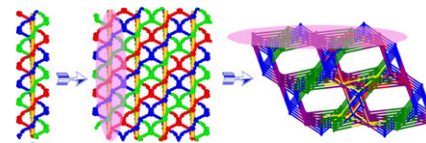


Xue-Qian Wu, Ya-Pan Wu, Jian-fang Wang, Zhi-Hang Zhou, Wei Zhou, Dong-Sheng Li

Inorganic Chemistry Communications 73 (2016) 41–44

Unique entangled Cu(II)-MOF featuring self-penetrating and polyhelix motifs generated from rigid azobenzenetetracarboxylic acid and N-donor coligands

A unique 3D entangling Cu(II)-metal organic framework presents a rare self-penetrating structure with polyhelix motifs and a new (4,4,8)-connected $(4.6^5)_2(6^4.7.8)_2(4^2.6^{20}.7^2.8^4)$ topology and exhibits antiferromagnetic coupling interaction between the adjacent Cu(II) ions.

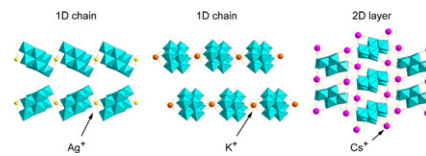


Keisuke Mikurube, Kimiko Hasegawa, Takashi Matsumoto, Jun Kobayashi, Haruo Naruke, Takeru Ito

Inorganic Chemistry Communications 73 (2016) 45–48

Isomerization-induced introduction of metal cations into polyoxomolybdate-surfactant hybrid crystals

Monovalent metal cations were introduced into inorganic-organic hybrid crystals composed from β -type octamolybdate (β - Mo_8) and hexadecylpyridinium. The introduction of metal cations was induced by the molecular isomerization from α - Mo_8 to β - Mo_8 anion. In the inorganic layers, the metal cations and β - Mo_8 anions were connected to form one- or two-dimensional arrangement.

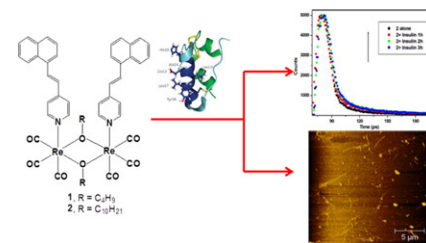


Veerasamy Sathish, Arumugam Ramdass, Zong-Zhan Lu, Murugesan Velayudham, Pounraj Thanasekaran, Kuang-Lieh Lu, Seenivasan Rajagopal

Inorganic Chemistry Communications 73 (2016) 49–51

Sensing of insulin fibrillation using alkoxy-bridged binuclear rhenium(I) complexes

An alkoxy bridged binuclear rhenium(I) complexes as a probe for the detection of aggregation of human insulin fibrils with binding of the complexes that are confirmed by the enhancement of fluorescence intensity, emission lifetime. The formation of fibrils can be supported by microscopic studies.

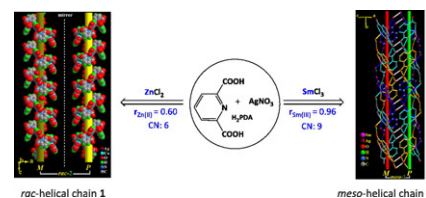


Qin Wei, Yu-Jia Ding, Xia Huang, Ji-Yuan Zhang, Wen-Jing Lu, Ren-Feng Dong, Yue-Peng Cai, Li-Ping Si

Inorganic Chemistry Communications 73 (2016) 52–56

Metal cation-dependent helicity of two 1-D heterometal chains constructed from pyridine-2,6-dicarboxylate

Two metal cation-dependent 1-D chains 1–2, in which 1 shows a *rac*-helicity and 2 a *meso*-helicity, were hydrothermally synthesized under the same reaction conditions.

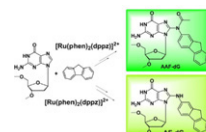


T. Nandhini, V.G. Vaidyanathan, B.U. Nair

Inorganic Chemistry Communications 73 (2016) 64–68

Effect of conformation of the arylamine-DNA adduct on the sensitivity of $[\text{Ru}(\text{phen})_2(\text{dppz})]^{2+}$ complex

$[\text{Ru}(\text{phen})_2(\text{dppz})]^{2+}$ sensitizes the *N*-acetyl amino fluorene-deoxyguanosine(AAF-dG) better than aminofluorene-deoxyguanosine(AF-dG) adduct and the control.



Effect of conformation of the Arylamine-DNA adduct on the sensitivity of $[\text{Ru}(\text{phen})_2(\text{dppz})]^{2+}$ complex

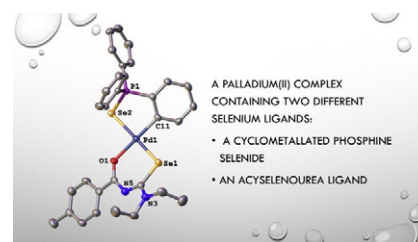
T. Nandhini^{a,c}, V.G. Vaidyanathan^{a,b} and B. U. Nair^a

Anja Molter, Jörg Rust, Christian W. Lehmann, Fabian Mohr

Inorganic Chemistry Communications 73 (2016) 69–71

A cyclopalladated phosphine selenide with an anionic acylselenourea ligand

The preparation and spectroscopic and structural characterisation of the palladium(II) complex $[\text{Pd}\{\kappa\text{C}_6\text{H}_4\text{P}(\text{Se})\text{Ph}_2\}\{\kappa\text{O}, \text{Se}-4\text{-MeC}_6\text{H}_4\text{C}(\text{O})\text{NC}(\text{Se})\text{NEt}_2\}]$, featuring two different selenium-containing ligands is described.

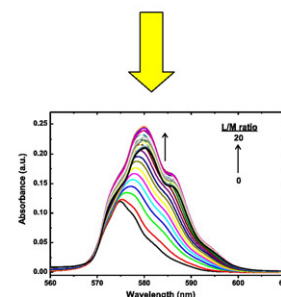


Rajesh B. Gujar, Seraj A. Ansari, Arijit Sengupta, Mallekav S. Murali, Prasanta K. Mohapatra

Inorganic Chemistry Communications 73 (2016) 72–76

Extractive complexation of lanthanides and Am(III) by 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone in ionic liquid: Solvent extraction and spectroscopic studies

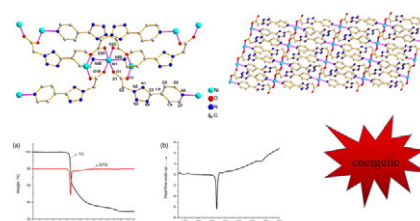
Extraction behaviour of trivalent actinides and lanthanides was studied using solutions of HPMBP in a room temperature ionic liquid and the nature of the extracted species was investigated by slope analysis, luminescence spectroscopy and thermodynamic studies. Complex formation constants with Nd^{3+} ions were reported for the first time.



Peng Peng Sun, Jia Fang Dong, Yun Wang, Yu Jie Liu, Fan Sun, Jun Wei Yuan, Gao Wen Yang, QiaoYun Li

Inorganic Chemistry Communications 73 (2016) 77–79

A solvent free nickel(II) compound derived from 5-(4-pyridyl)tetrazole-2-acetic acid for potential energetic material

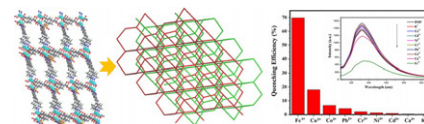


**Xian-Dong Zhu, Kun Zhang,
Wei-Xiang Zhou, Qing-Hai Li, Ying-Qiang Fu,
Rong-Mei Liu, Gui-Xiang Qian**

Inorganic Chemistry Communications 73
(2016) 90–93

A luminescent two-fold interpenetrated pillared-layer metal-organic framework for highly selective and sensitive sensing of Fe^{3+}

A new two-fold interpenetrated pillared-layer MOF has been hydrothermally synthesized and characterized. The luminescence study indicates that it is a promising material for specific selective identification and quantification of Fe^{3+} .

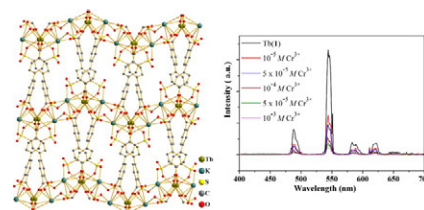


**Hui-Hong Wang, Li-Juan Zhou,
Yu-Ling Wang, Qing-Yan Liu**

Inorganic Chemistry Communications 73
(2016) 94–97

Terbium-biphenyl-3,3'-disulfonyl-4,4'-dicarboxylate framework with sulfonate sites for luminescent sensing of Cr^{3+} ion

A novel Tb-organic framework **1** based on the biphenyl-3,3'-disulfonyl-4,4'-dicarboxylate ligand has been synthesized. Compound **1** features a 3D pillared framework with the sulfonate sites pointing to the pores, which can capture the Cr^{3+} , highlighting the potential for Cr^{3+} ion luminescent sensor.

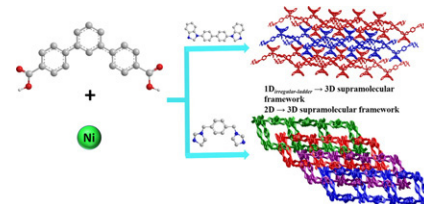


**Xiang-min Meng, Yi-lin Wang, Xia Zhang,
Zi-ao Zong, Yu-hua Fan, Cai-feng Bi**

Inorganic Chemistry Communications 73
(2016) 98–102

Syntheses, structural diversity and photocatalytic properties of two rare Ni(II) coordination polymers assembled by "V"-shaped dicarboxylates and bis(imidazolyl) ligands

Two rare Ni(II) coordination polymers based on semi-rigid and rigid N-donor ligands were obtained. Their photocatalytic properties were investigated.

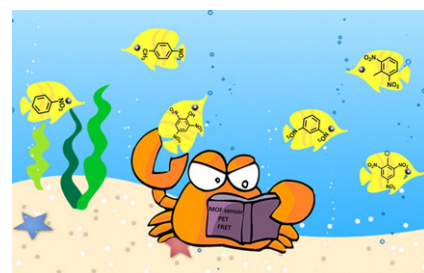


Meng-Yao Sun, Di-Ming Chen, Huan Zhang

Inorganic Chemistry Communications 73
(2016) 103–106

A two-fold interpenetrated metal-organic framework for the highly selective detection of explosive picric acid

A new 3D Zn-based luminescence metal-organic framework with two-fold interpenetrated net consisting of a 3D ThSi_2 -type topology has been successfully synthesized. This compound could behave as an effective sensor for detecting picric acid (PA) with high selectivity and sensitivity among the nitro-explosives studied. Furthermore, the quenching mechanism has also been investigated in detail.

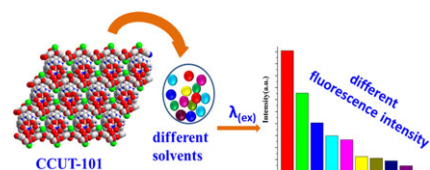


Guoshuai Zhang, Yuekun Zhang, Weibo Ren, Jinpeng Liu, Mei Liu

Inorganic Chemistry Communications 73 (2016) 107–110

Syntheses, crystal structures and properties of self-assembly supramolecular compound based on cucurbit[6]uril

A novel cucurbit[6]uril-based compound was synthesized by the solvothermal reaction in the presence of INA^- as a structure-directing agent. The luminescence properties of **CCUT-101** in different solvent emulsions were investigated. The luminescence changes in different solvent emulsions suggested that it is possible to sense different solvents.

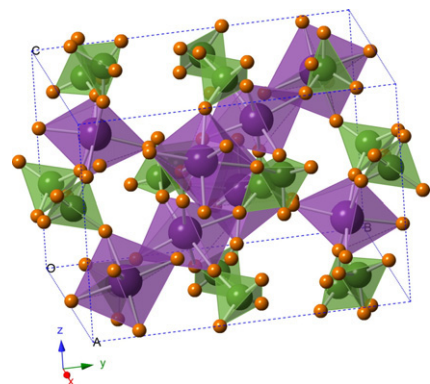


Weigang Cao, He Zhu, Zhanning Liu, Jinxia Deng, Jun Chen, Xianran Xing

Inorganic Chemistry Communications 73 (2016) 111–114

Phase transition and thermal expansion of $\text{Ho}_2\text{W}_3\text{O}_{12}$

Orthorhombic $\text{Ho}_2\text{W}_3\text{O}_{12}$ shows NTE ($-2.1 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$) in the temperature range of 200–600 °C.

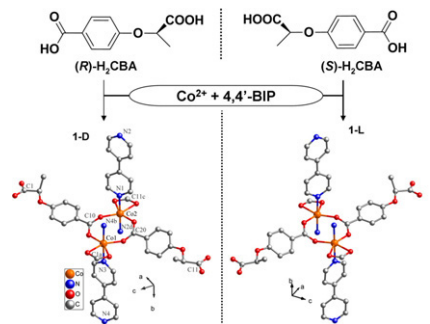


Zhong-Xuan Xu, Yu-Lu Ma, Li-Shuang Zhang, Jian Zhang

Inorganic Chemistry Communications 73 (2016) 115–118

A couple of Co(II) enantiomers constructed from semirigid lactic acid derivatives

A pair of semirigid organic ligands integrating benzoic acid and lactate units have been synthesized and employed to the construction of enantiomeric coordination polymers.

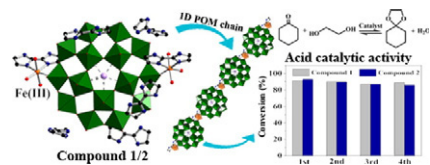


Jing Du, Mei-Da Cao, Zai-Ming Zhu, Fang Su, Lan-Cui Zhang

Inorganic Chemistry Communications 73 (2016) 119–123

Synthesis and catalytic activities of two new extended Preyssler-type tungstophosphates with different cavity centers

Two new extended Preyssler-type polyoxometalates with different cavity centers constructed by Fe(III), 2,2'-biimidazole and Preyssler-type tungstophosphate anions display higher catalytic performances toward the synthesis of cyclohexanone ethylene ketal and can be reused.

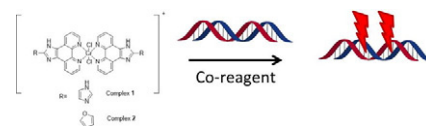


B. Babu, T. Nandhini, V.G. Vaidyanathan, Balachandran Unni Nair

Inorganic Chemistry Communications 73 (2016) 124–128

Studies on interaction of Cr(III) polypyridyl complexes with DNA

Results show that complex **2** exhibit better nuclease activity compared to complex **1** in the presence of coreagent.

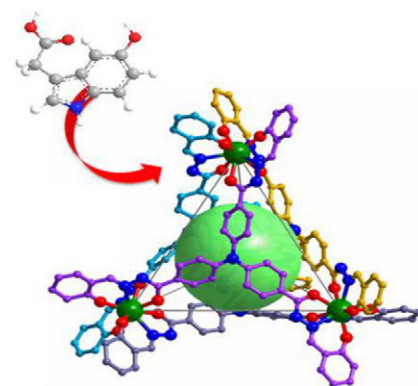


Yang Jiao, Hai-yang He, Ji-qiu Yin, Lu Zhou, Cheng He, Chun-ying Duan

Inorganic Chemistry Communications 73 (2016) 129–133

A cerium-based metal-organic tetrahedron for fluorescent recognition of 5-HIAA and its application in urine test

The tetrahedron exhibited sensitivity and good selectivity for 5-HIAA over other biologically relevant species in urine, and it could encapsulate 5-HIAA through weak interaction and space stereo selectivity.

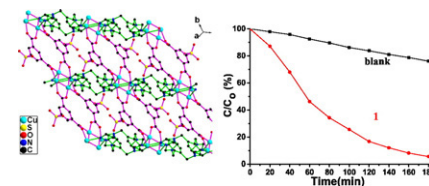


Shan Zhao, Ya-Qian Zhang, Tian-Rui Zheng, Lu-Lu Shi, Bao-Long Li, Yong Zhang

Inorganic Chemistry Communications 73 (2016) 134–137

Synthesis, structure and photocatalytic properties of an unusual tetranuclear copper(II) coordination polymer

An unusual coordination polymer with 2-fold interpenetrated 2D sql network based on tetranuclear copper(II) clusters $[\text{Cu}_4(\text{OH})_2]$ is a highly efficient and universal photocatalyst for the degradation of the organic dyes.

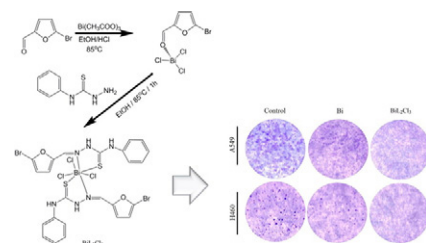


Ruizhuo Ouyang, Yang Yang, Xiao Tong, Yaoqin Yang, Huihong Tao, Tianyu Zong, Kai Feng, Pengpeng Jia, Penghui Cao, Ning Guo, Haizhou Chang, Shuang Zhou, Yuqing Miao

Inorganic Chemistry Communications 73 (2016) 138–141

Potential anti-cancer activity of a novel Bi(III) containing thiosemicarbazone derivative

By mixing 5-bromo-2-furaldehyde, phenylthiosemicarbazide and $\text{Bi}(\text{CH}_3\text{COO})_3$, a new amorphous bismuth-containing complex was synthesized under aqueous conditions via a one-pot method, which effectively inhibited the proliferation and migration of A549 and H460 lung cancer cells, induced cell apoptosis and displayed fairly low cytotoxicity to normal human lung fibroblast (HLF), indicative of great potential anti-cancer activity.

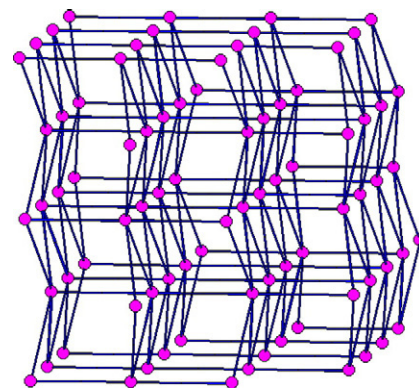


**Binfang Meng, Yuqi Liu, Yubo Xing,
Xinying Wang, Wei Li**

Inorganic Chemistry Communications 73
(2016) 142–146

Octanuclear zinc(II) carboxylate framework
based on 1,4-naphthalenedicarboxylic acid

A novel coordination polymer has been synthesized by self-assembly of zinc with varied polycarboxylates (1,4-naphthalenedicarboxylic acid) and *N,N*-dimethylformamide, which present 3D structure based on $[Zn_8(\mu_4-O)_2(COO)_{12}]$ octanuclear as secondary building unit.

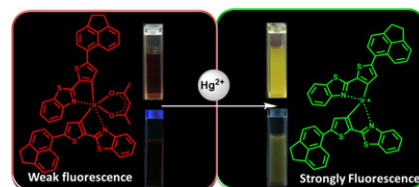


**Qunbo Mei, Yujie Shi, Chen Chen,
Qingfang Hua, Bihai Tong**

Inorganic Chemistry Communications 73
(2016) 147–151

A highly selective turn-on sensor for Hg^{2+}
based on a phosphorescent iridium (III)
complex

A highly selective phosphorescent chemosensor for Hg^{2+} based on the iridium (III) complex $Ir(DTBT)_2(acac)$ ($DTBT = 2-(5-(1,2$ dihydroacenaphthylen-5-yl)thiophen-2-yl)benzothiazole, $acac =$ acetylacetonate) was synthesized and characterized. $Ir(DTBT)_2(acac)$ exhibited relatively weak fluorescence at about 700 nm. $Ir(DTBT)_2(acac)$ displayed a dramatic color change from near-infrared to yellow-green with the addition of Hg^{2+} . More significantly, the chemosensor performed “turn-on” phosphorescent responses toward Hg^{2+} .

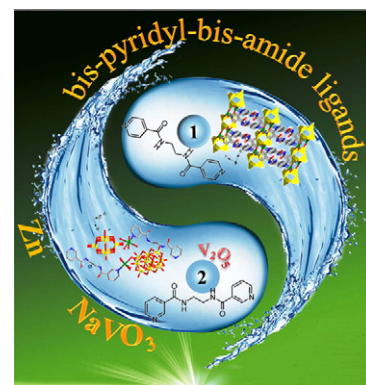


**Xiuli Wang, Junjun Sun, Hongyan Lin,
Zhihan Chang, Guocheng Liu**

Inorganic Chemistry Communications 73
(2016) 152–156

N-donor position-induced diverse
architectures of polyoxovanadate-based
hybrid materials: Structures, fluorescence
and photocatalytic activities

Two new inorganic–organic hybrid complexes derived from polyoxovanadate and different bis-pyridyl-bis-amide ligands have been prepared. Their fluorescence properties and photocatalytic activities have been discussed.

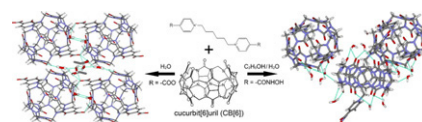


Bo Li, Xuzhuo Sun

Inorganic Chemistry Communications 73
(2016) 157–160

Water clusters with anion templates in
cucurbit[6]uril supramolecular
pseudorotaxanes

The structures and sizes of anion water clusters in pseudorotaxanes are influenced by solvent and the terminal groups of the guests.

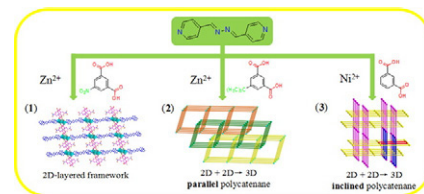


**Jie Zhou, Tong Yan, Yong-Feng Qiao,
Yi-Dan Zhao, Xiao Wang, Lin Du,
Ming-Jin Xie, Jian Xu, Qi-Hua Zhao**

Inorganic Chemistry Communications 73
(2016) 161–165

Three unique MOFs constructed by 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene and dicarboxylates: From rhombic tetrameric zinc(II) 2D layer to 2D + 2D → 3D polycatenated frameworks

Three coordination polymers are reported: compound 1 exhibit a 2D network with rhombic $\{Zn_4\}$ clusters, while 2 and 3 possess a parallel and a inclined 2D → 3D polycatenated framework, respectively.

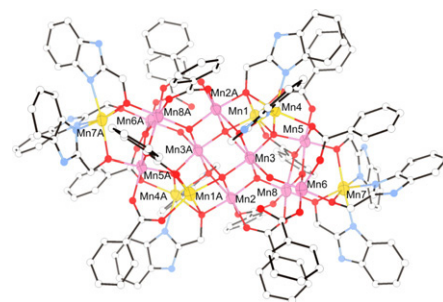


**Feng Wang, Zhengbing Fu, Liangui Guo,
Jun Du, Yu Ding**

Inorganic Chemistry Communications 73
(2016) 166–169

Construction of a mixed-valence Mn_{16} cluster with four tetrahedrons

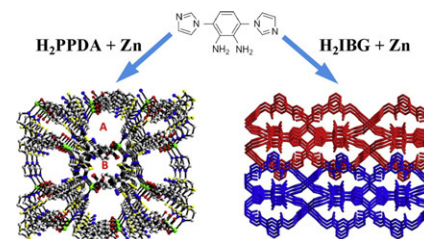
A mixed-valence Mn_{16} cluster contains the $Mn_{16}(\mu_2-O)_2(\mu_3-O)_2(\mu_4-O)_6$ core. Magnetic susceptibility measurements indicate the presence of dominant antiferromagnetic exchange interaction within the compound.



**Yongbing Lou, Yinglian Peng, Xin Zhang,
Jinxi Chen**

Inorganic Chemistry Communications 73
(2016) 183–186

Structure tuning in amino-functionalized coordination polymers based on different V-shaped dicarboxylate ligands

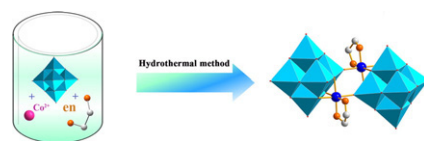


**Shufang Zhao, Zhijie Liang, Lanying Song,
Pengtao Ma, Dongdi Zhang, Jingping Wang**

Inorganic Chemistry Communications 73
(2016) 187–189

A new organic-inorganic hybrid dimeric hexaniobate linked by Co-complex

Compound **1** was obtained by the reaction of $K_7HNb_6O_{19} \cdot 13H_2O$ with $CoCl_2 \cdot 6H_2O$ and en using hydrothermal method and the polyanion **1a** consists of a dimeric alignment constructed from two Lindqvist-type $\{Nb_6O_{19}\}$ subunits via two $\{Co^{III}(en)\}$ connectors.



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