

Contents

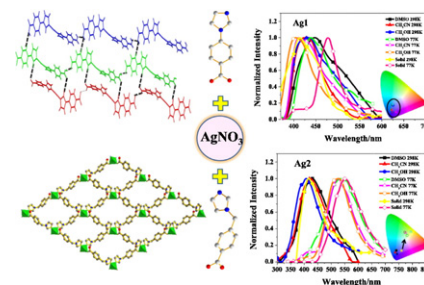
Feature Articles

Yang Song, Ruiqing Fan, Song Gao, Xinming Wang, Ping Wang, Yulin Yang, Yulei Wang

Inorganic Chemistry Communications 53 (2015) 34–41

Effect of solvent and temperature on the photoluminescent properties of Ag(I) complexes base on two different flexibility imidazole functionalized benzoic acid linkers

Two novel Ag(I) complexes [Ag(ibz)(Hibz)]₂ (**Ag1**) and [Ag(imbz)(Himbz)]_n (**Ag2**) have been synthesized. **Ag1** shows 0D two-coordination linear configuration, "while" **Ag2** possesses 2D framework, exhibiting two-fold interpenetrating **sql** topology structure. **Ag1** displays stable blue luminescence and **Ag2** shows tunable luminescence by changing the temperature from 298 K to 77 K.

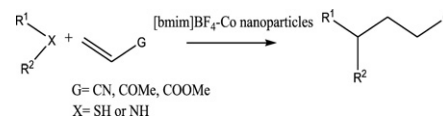


Manika Dewan, Arnab De, Subho Mozumdar

Inorganic Chemistry Communications 53 (2015) 92–96

Efficient and reusable ionic liquid stabilized magnetic cobalt nanoparticles as catalysts for aza- and thia-Michael reactions

Magnetic cobalt nanoparticles, stabilized using ionic liquid [bmim]BF₄, have been used for catalyzing aza- and thia-Michael reactions under environmentally benign conditions at room temperature. The products were isolated in high yields in short reaction times, while the catalyst was efficiently recycled multiple times using a magnetic field.



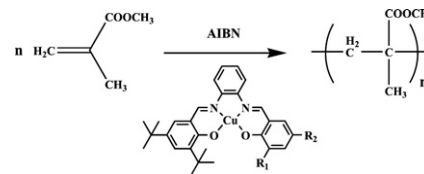
Short Communications

Yan Chen, Yaoju Liu, Xingmei Zhang, Zhao Zhang, Lin Liu, Daidi Fan, Liqin Ding, Xingqiang Lü

Inorganic Chemistry Communications 53 (2015) 1–3

Stereo-regulated methyl methacrylate (MMA) polymerization catalyzed by asymmetric Salen-type Schiff-base Cu(II) complexes

A series of asymmetric Salen-type Schiff-base complexes [Cu(Lⁿ)] (1–5, n = 1–5) are shown to effectively catalyze the controllable polymerization of MMA, where Cu(II)-to-chelate-ring distance is positive to catalytic activity, while tacticity and chain-growth of the obtained syndio-enriched PMMAs rest with the introduction of an encumbering substituent *ortho* to the phenoxide ring of the ligands.

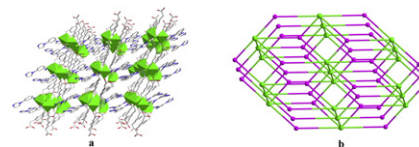


**Xu-Dong Zhang, Ya-Meng Li, Lin Fan,
Jian-Dong Pang, Zhan-Feng Ju**

Inorganic Chemistry Communications 53
(2015) 4–6

A binodal *tfz-d* network constructed from
trinuclear Cobalt(II) clusters

A 3D network based on the trinuclear cobalt(II) clusters, $[\text{Co}_3(\text{bta})_2(\text{bib})_2]$ (**1**) (H_3bta = 1,3,5-benzenetriacetic acid; bib = 1,3-bis(1-imidazoly)benzene) have been synthesized and characterized. Topological analysis indicates that it has a unique binodal (3, 8)-connected *tfz-d* network with the Schläfli symbol of $(4^3)_2(4^6 \cdot 6^{18} \cdot 8^4)$. The magnetic data reveals the dominant antiferromagnetic interactions between the Co (II) cations within the trinuclear cluster.



**Jing-Xiang Su, Yan-Yu Shen, Feng Ren,
Zheng-Fang Lv, Xue-Chan Li, Zhou-Jia Lin,
Hsiu-Yi Chao**

Inorganic Chemistry Communications 53
(2015) 7–10

Dinuclear cadmium(II) thiolate complexes
bearing urea groups: Synthesis,
characterization, photophysical properties and
anion binding studies

Three dinuclear cadmium(II) thiolate complexes with urea units $[(\text{bpy})_2\text{Cd}(\mu\text{-SC}_6\text{H}_4\text{-4-NHC(O)NHC}_6\text{H}_4\text{-R-4})_2(\text{ClO}_4)_2]$ ($\text{R} = \text{NO}_2$ (**1**), Cl (**2**), H (**3**); bpy = 2,2'-bipyridine), have been synthesized. The selective color change of **1** towards F^- in DMSO provides an access for naked eye detection of F^- .

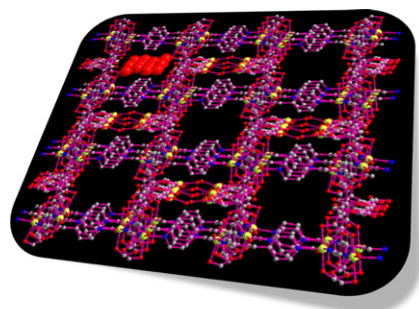


**Xiangyu Liu, Peipei Cen, Huiliang Zhou,
Xiaoyong Jin, Qilin Hu, Yongqiang Ji**

Inorganic Chemistry Communications 53
(2015) 11–14

A new 3D Cd(II) metal–organic framework
with discrete $(\text{H}_2\text{O})_6$ clusters based on flexible
cyclohexane-1,2,4,5-tetracarboxylic acid
ligand

A 3D Cd(II) mixed-ligand MOF containing
cyclohexane-1,2,4,5-tetracarboxylic acid and
1,3-bis(4-pyridyl)propane has been synthe-
sized and structurally characterized. Six-
molecule water clusters fill the 1D channels
of the structural framework.

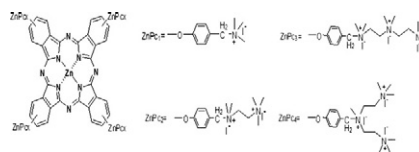


**Liu Zhang, Ao Wang, Shan Lu, Lin Zhou,
Jiahong Zhou, Yun Lin, Shaohua Wei**

Inorganic Chemistry Communications 53
(2015) 15–19

The influences of the number of the
ammonium groups and their arrangement
manner on the photophysical properties of
the quaternized zinc phthalocyanines

Four quaternized zinc phthalocyanines with
different ammonium groups and configuration
for quaternized nitrogens were synthesized
and studied. Result showed that the straight
configuration and the increased numbers of
quaternized ammonium groups can decrease
the aggregation degree and improve the single
oxygen generation ability and fluorescence
intensity.



Download English Version:

<https://daneshyari.com/en/article/1301562>

Download Persian Version:

<https://daneshyari.com/article/1301562>

[Daneshyari.com](https://daneshyari.com)