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Synthesis, Structure and Comparison of Photo-electric Properties of Co(II) Complexes with Benzoic Derivatives Ligand

JIN Jing, LIU Yong-Hua, LIU Jia-Cao, NIU Shu-Yun

DOI:10.3969/j.issn.1001-4861.2013.00.108

Chinese J. Inorg. Chem., **2013**,**29**:455-464

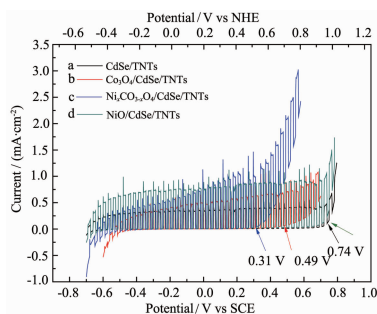
Articles

Effect of $\text{Ni}_x\text{Co}_{3-x}\text{O}_4$ Modification for CdSe/TiO₂ Nanotube Arrays on Activity of Photoelectrochemical Oxidation of Water

XU Zhen, LI Juan, LI Xin-Jun

DOI:10.3969/j.issn.1001-4861.2013.00.051

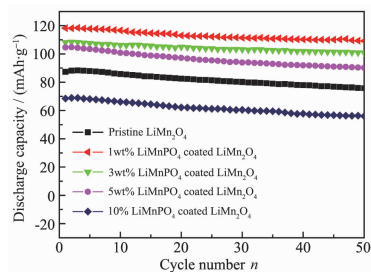
Chinese J. Inorg. Chem., **2013**,**29**:429-436



The modification of $\text{Ni}_x\text{Co}_{3-x}\text{O}_4$ can lower the overpotential of water oxidation and consequently facilitates the oxidation of water.

Improvement of Electrochemical Properties of LiMn_2O_4 Cathode Material by LiMnPO_4 Coating via Hydrothermal Method

QIU Guang-Chao, XIA Bing-Bo,
SUN Hong-Dan, FANG Guo-Qing,
LIU Wei-Wei, LI De-Cheng, WEI Jie



LiMnPO_4 -coated LiMn_2O_4 with different contents were synthesized by hydrothermal method. The reversible capacity of the 1wt% LiMnPO_4 coated LiMn_2O_4 is $109 \text{ mAh} \cdot \text{g}^{-1}$ when cell was operated at 55°C after 50 cycles. 1wt% LiMnPO_4 coated LiMn_2O_4 has excellent rate capability.

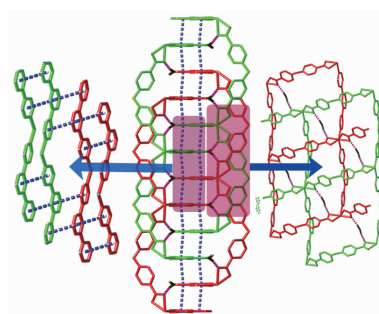
DOI:10.3969/j.issn.1001-4861.2013.00.063

Chinese J. Inorg. Chem., **2013**,**29**:437-443

Structure and Fluorescence Property of 2D Bilayer Zn(II) Coordination Polymer Induced by H-Bonding and π - π Interaction (English)

HU Jin-Song, LIU Xi-Hui, SHI Jian-Jun, XING Hong-Long, HE Jie

DOI:10.3969/j.issn.1001-4861.2013.00.130
Chinese J. Inorg. Chem., **2013**,**29**:444-448

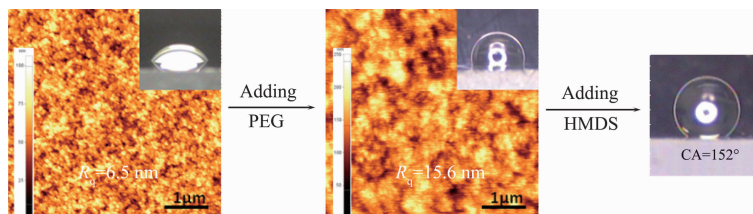


Solvothermal reaction of 1,3-dipyridyl benzene (1,3-dpb) with 4,4'-oxybis (benzoic acid) (H_2oba) produced a unusual bilayer 2D network by H-bonding and π - π interaction, the fluorescence property was studied.

Micro-Structure and Surface Modification of Porous Silica Coating and Their Effects on Hydrophobicity

XU Li-Li, LI Xiao-Guang, NI Xing-Yuan, SHEN Jun

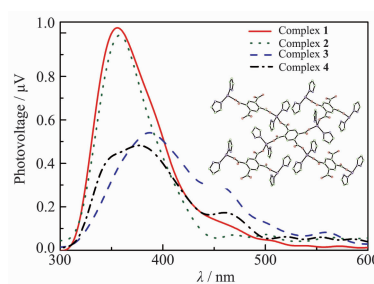
DOI:10.3969/j.issn.1001-4861.2013.00.089
Chinese J. Inorg. Chem., **2013**,**29**:449-454



Synthesis, Structure and Comparison of Photo-electric Properties of Co(II) Complexes with Benzoic Derivatives Li gand

JIN Jing, LIU Yong-Hua, LIU Jia-Cao, NIU Shu-Yun

DOI:10.3969/j.issn.1001-4861.2013.00.108
Chinese J. Inorg. Chem., **2013**,**29**:455-464

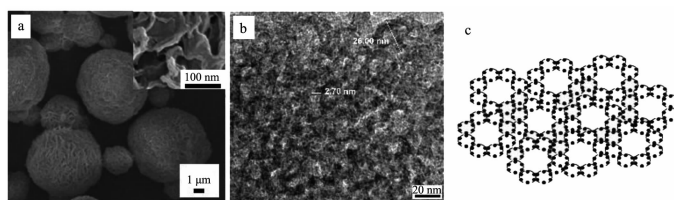


The photoelectric properties were studied by SPS. The structure of the complexes and coordination environment of the Co(II) ions all affect the photoelectric responses.

3D-Mesoporous Zirconium Phosphonate NTAZP: Synthesis and Formaldehyde Oxidation by Its Supported Fe^{3+} Catalyst

JIA Yun-Jie, LI Ming-Lei, CUI Ji-Li, LIU Liang, WANG Run-Wei, YI Jian-Jun, XU Qing-Hong

DOI:10.3969/j.issn.1001-4861.2013.00.078
Chinese J. Inorg. Chem., **2013**,**29**:465-473

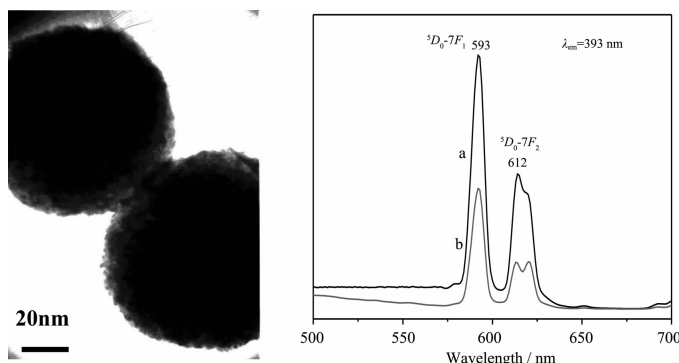


The catalytic activity for Fe^{3+} -based catalyst of NTAZP- Fe^{3+} is high for small-molecule aldehydes oxidation.

Preparation and Properties of $Ag@YF_3:Eu^{3+}$ Core-Shell Structural Nanomaterials

LUAN Dan, SUN Ping, LIU Gui-Xia, WANG Jin-Xian, DONG Xiang-Ting, YU Wen-Sheng

DOI:10.3969/j.issn.1001-4861.2013.00.085
Chinese J. Inorg. Chem., **2013**,**29**:474-478

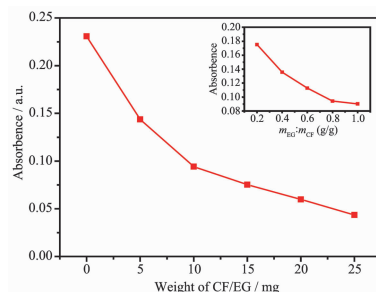


Preparation and Oil/Water Separation of Co-Ferrite/Expanded Graphite and Its Polypyrrole Composites

CHEN Hai-Feng, MA Ge, LI Liang-Chao,
WU Xi-Zhi, XIAO Qiu-Shi, XU Feng

DOI:10.3969/j.issn.1001-4861.2013.00.057

Chinese J. Inorg. Chem., **2013**,**29**:479-485



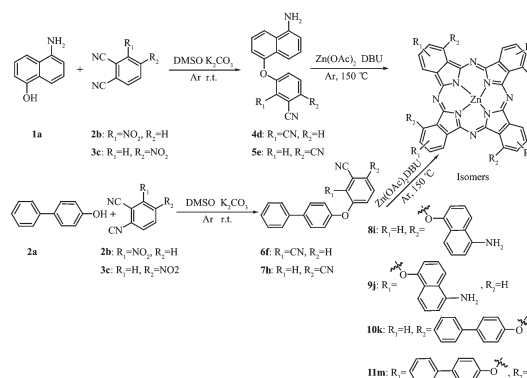
The cobalt ferrite/expanded graphite complex particles (CF/EG) were prepared by chemical co-precipitation method. The oil/water separation performance of the CF/EG complex particles was proportional to the spacing of layers in EG. The CF/EG complex particle with m_{EG}/m_{CF} ratio of 0.8 was used as an optimal material for oil/water separation due to excellently absorbing oil, easier recovery and repeated utilization.

Synthesis and Photophysical / Photochemical Properties of Aryloxy Substituted Phthalocyanine Zinc Complex

LIU Hong, ZHANG Lei, JIA Xiao,
LIU Jian-Yong, XUE Jin-Ping

DOI:10.3969/j.issn.1001-4861.2013.00.062

Chinese J. Inorg. Chem., **2013**,**29**:486-492

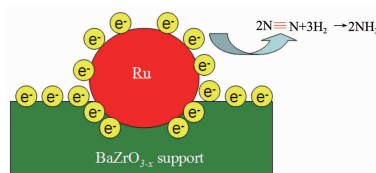


Ru-Based Catalysts Supported on Perovskite Type BaZrO₃ for Ammonia Synthesis

WANG Zi-Qing LIN Jian-Xin,
WANG Rong WEI Ke-Mei

DOI:10.3969/j.issn.1001-4861.2013.00.018

Chinese J. Inorg. Chem., **2013**,**29**:493-499



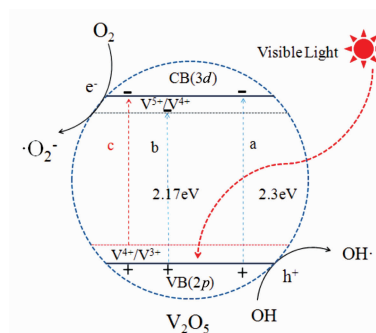
Ru/BaZrO₃ was an excellent catalyst for ammonia synthesis especially under the mild conditions, which was attributed to the electrons transferred from the reduced support to the Ru surface by means of the metal-support interaction.

Electrospinning Preparation and Visible-Light Photocatalytic Activity of V₂O₅ Micro-Nanorod

LUO Fei, ZHOU De-Feng, YANG Guo-Cheng,
LIU Jian-Wei, LI Zhao-Hui, MENG Jian

DOI:10.3969/j.issn.1001-4861.2013.00.104

Chinese J. Inorg. Chem., **2013**,**29**:500-506



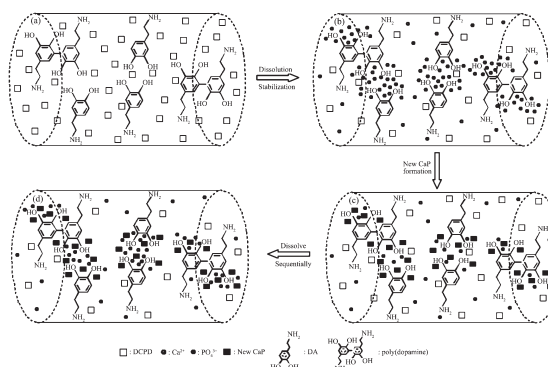
As a result of the influence of impurity energy level V^{5+}/V^{4+} and V^{4+}/V^{3+} , the V₂O₅ micro-nanorods forbidden band value diminishes, the excited electron from the value band to the conduction band transitions distance is shortened, the photocatalyst for the visible light absorption range broaden and the photocatalytic efficiency enhancement.

Influence of Dopamine on Physicochemical Properties of Calcium Phosphate Cement

LIU Zong-Guang, QU Shu-Xin,
ZHAO Jun-Sheng, LIU Yu, WENG Jie

DOI:10.3969/j.issn.1001-4861.2013.00.088

Chinese J. Inorg. Chem., **2013**,**29**:507-515

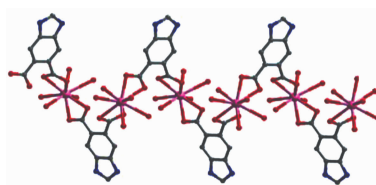


Synthesis and Crystal Structure of Eu(III)/Dy(III) Coordination Polymers with Benimidazole-5,6-dicarboxylate Acid

DONG Li-Na, MA Xue, CHA Yu-E, LI Xia

DOI:10.3969/j.issn.1001-4861.2013.00.029

Chinese J. Inorg. Chem., **2013**,**29**:516-522



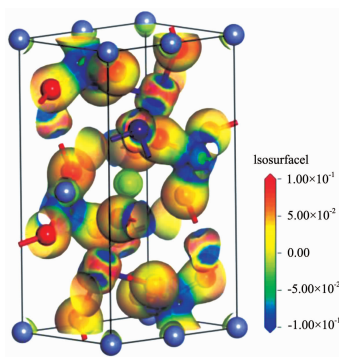
The complexes $\{[Ln(Hbdc)(bdc)(H_2O)_3] \cdot 3H_2O\}_n$ ($Ln=Eu$ **1**, Dy **2**; H_2bdc =benzimidazole-5,6-dicarboxylic acid) have 1D chain structures by bmde ligands and behave characteristic fluorescence of Eu^{3+} and Dy^{3+} ions, respectively.

Electronic Structure of $LiMnPO_4$ Positive-Electrode Material for Lithium-Ion Battery

ZHU Yan-Rong, XIE Ying, YI Ting-Feng,
ZENG Yuan-Yuan, ZHU Rong-Sun

DOI:10.3969/j.issn.1001-4861.2013.00.119

Chinese J. Inorg. Chem., **2013**,**29**:523-527



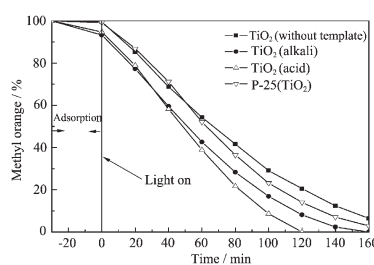
Lithium element exists in the $LiMnPO_4$ positive electrode material mainly in form of ions. There is an effective overlap between $O2p$, $P3s$ orbitals and $Mn3d$, $O2p$ orbitals, and then forms the covalent bonds.

Synthesis and Photocatalytic Activity of Mesoporous TiO_2 Using Nano-Cellulose Template Prepared by Acid Method

CHEN Xiao-Yun, LU Dong-Fang,
CHEN Yan, TAN Fei

DOI:10.3969/j.issn.1001-4861.2013.00.055

Chinese J. Inorg. Chem., **2013**,**29**:528-536



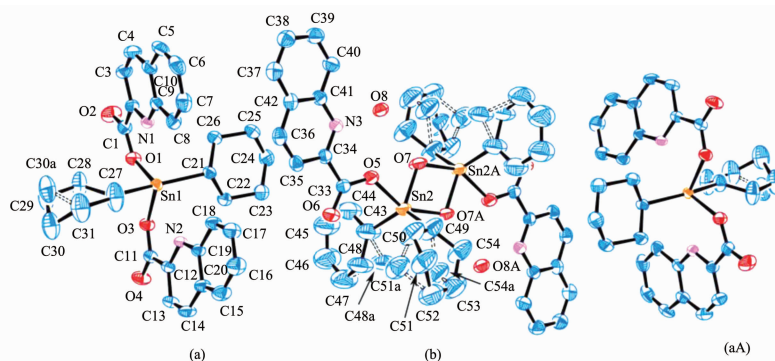
TiO_2 synthesized with nano-cellulose template exhibits mesoporous structure and high activity under UV irradiation. Hydroxyl groups of nano-cellulose and surface hydroxyl groups of TiO_2 bonding can inhibit the TiO_2 precursor growth and aggregation, and inhibit the phase transformation from anatase to rutile.

Synthesis, Crystal Structure and Properties of Novel Dicyclohexyltin Quinoline-2-Carboxylate

ZHANG Fu-Xing, WANG Jian-Qiu,
KUANG Dai-Zhi, FENG Yong-Lan,
XU Zhi-Feng, YU Jiang-Xi

DOI:10.3969/j.issn.1001-4861.2013.00.100

Chinese J. Inorg. Chem., **2013**,**29**:537-543

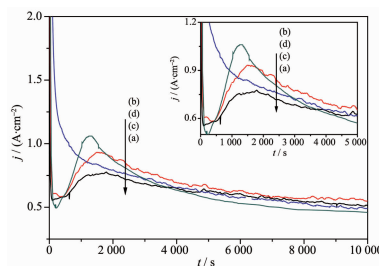


Preparation and Characterization of TiO₂ Nanotubes Array by Anodic Oxidation in Anionic Modified Glycerol-Based Electrolyte

XIAO Xiu-Feng, LIANG Jian-He,
TANG Hai-Zhen, YANG Xiao-Juan,
LIU Rong-Fang

DOI:10.3969/j.issn.1001-4861.2013.00.004

Chinese J. Inorg. Chem., **2013**,**29**:544-550



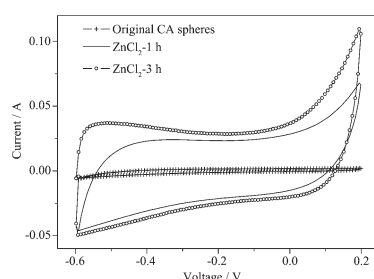
The longer TiO₂ nanotube arrays were obtained by slowing down the reduce of the anodization current and the corrosion of the F⁻ on the nanotube in the modified glycerol electrolyte with adding a little NH₄H₂PO₄ or (NH₄)₂SO₄ or (NH₄)₂TiF₆.

Influence of ZnCl₂ Activation on Structure and Electrochemical Performance of Carbon Aerogel Spheres

LIU Ning

DOI:10.3969/j.issn.1001-4861.2013.00.123

Chinese J. Inorg. Chem., **2013**,**29**:551-556



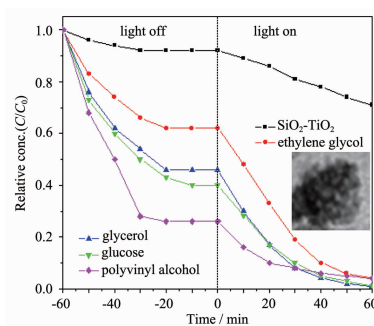
Carbon aerogel spheres were activated by zinc chloride (ZnCl₂), and the activated products were made into the electrodes of supercapacitor. After ZnCl₂ activation, the surface area and porosity of the activated products were increased, and the capacitance properties of the prepared electrodes were enhanced.

SiO₂/TiO_{2-x}C_x/C: Preparation, Characterization, Adsorption and Visible-Light Photocatalytic Properties

GAO Shan-Min, LIU Xin, XU Hui,
LIU Xun-Yong, HUANG Bai-Biao, DAI Ying

DOI:10.3969/j.issn.1001-4861.2013.00.120

Chinese J. Inorg. Chem., **2013**,**29**:557-564



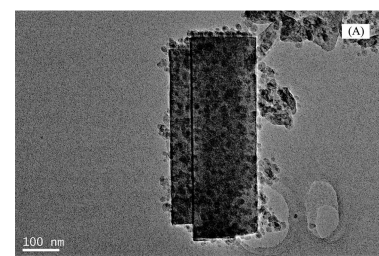
The title porous composites exhibit much higher absorption capability and better photocatalytic activity for the photooxidation of methylene blue than that of the pure silica-titania composite.

Particle Size Control for SAPO-11 Molecular Sieves

HAN Lei, CUI Xiao, LIU Xin-Mei

DOI:10.3969/j.issn.1001-4861.2013.00.103

Chinese J. Inorg. Chem., **2013**,**29**:565-570

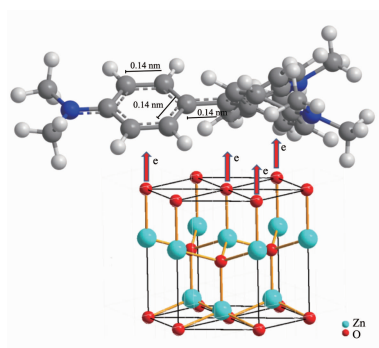


SERS of Crystal Violet Adsorbed on Submicrometer Rod-Like ZnO

MENG Wei, ZHANG Ling-Yan,
JIANG Xiao-Hong, LU Lu-De, WANG Xin

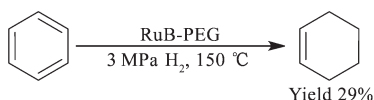
DOI:10.3969/j.issn.1001-4861.2013.00.082

Chinese J. Inorg. Chem., **2013**,**29**:571-576



The optimized geometry of crystal violet was analyzed at the DFT/B3LYP level and the SERS enhancement factor for it adsorbed on ZnO is up to 1.2×10^2 , which is attributed to chemical enhancement.

Polyethylene Glycol Stabilized RuB Nanoparticles: an Effective Catalyst for Selective Hydrogenation of Benzene to Cyclohexene

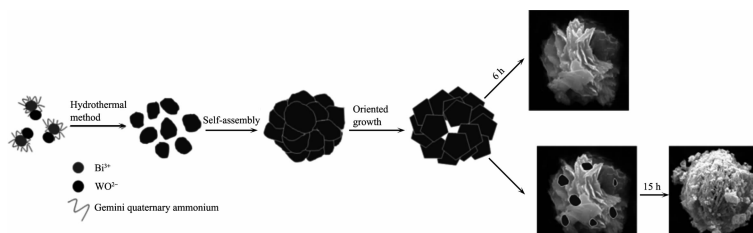


RuB nanoparticles stabilized by PEG show an effective catalytic activity and selectivity to hydrogenation of benzene to cyclohexene.

ZHANG Ye, FU Hai-Yan,
LI Rui-Xiang, CHEN Hua, LI Xian-Jun

DOI:10.3969/j.issn.1001-4861.2013.00.046
Chinese J. Inorg. Chem., **2013**,**29**:577-582

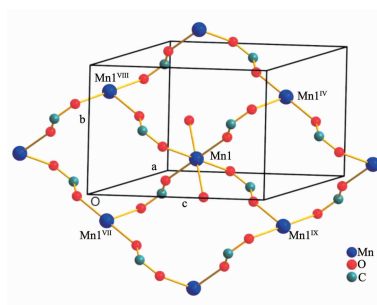
A Multi-quaternary Ammonium Induced Synthesis of Bi₂WO₆ Sheet-Like Cluster Microspheres and Photoluminescence Properties



WEI Xia, ZHOU Yuan-Lin, LI Yin-Tao,
CHENG Ya-Fei

DOI:10.3969/j.issn.1001-4861.2013.00.097
Chinese J. Inorg. Chem., **2013**,**29**:583-588

Synthesis, Structure, Properties of a Two-Dimensional Manganese(II) Coordination Polymer with α -Naphthylacetic Acid

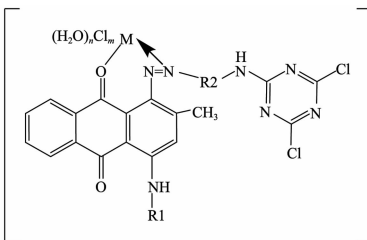


Each Mn(II) atom is six-coordinated with a distorted octahedral geometry. The NAA⁻ anion acts as a μ_2 -bridge linking Mn(II) atoms generating a two-dimensional network with (4,4) topology.

YIN Fu-Jun, ZHAO Hong,
XU Xing-You, YANG Xu-Jie

DOI:10.3969/j.issn.1001-4861.2013.00.081
Chinese J. Inorg. Chem., **2013**,**29**:589-594

Bivalent and Trivalent Transition Metal Complexes of Azo Compounds Derived from Anthraquinone and Their Mutagenic-Teratogenic Effects(English)



4-(5'-aminonaphthalene-3'-sulfonic acid) azo-(2'' -N-(4''' ,6''' -dichloro-S-triazine) benzene-5'' -(β -sulfatoethyl sulfonyl)-2-methyl anthraquinone (**2a**) with Fe^{III}, Co^{II} metal complexes (**2a**-Fe and **2a**-Co) in Ames/Salmonella/Microsome Test and in embryos of rats are not mutagenic and teratogenic for both TA98 and TA100 strains with and without metabolic activator S9mix.

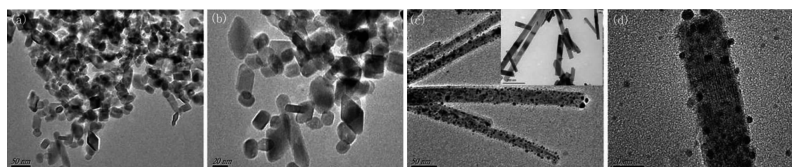
Yildiz E, Karadeniz B, Yildiz A M,
Rencuzogullari E

DOI:10.3969/j.issn.1001-4861.2013.00.033
Chinese J. Inorg. Chem., **2013**,**29**:595-604

Hydrothermal Synthesis and Visible Light Photocatalytic Property of $\text{Bi}_{3.25}\text{Sm}_{0.75}\text{Ti}_3\text{O}_{12}$ Nanowires (English)

LIN Xue, GUAN Qing-Feng, ZOU ChunJie, LIU Ting-Ting, ZHANG Yao, LIU Chun-Bo, ZHAI Hong-Ju

DOI:10.3969/j.issn.1001-4861.2013.00.102
Chinese J. Inorg. Chem., **2013**,**29**:605-612

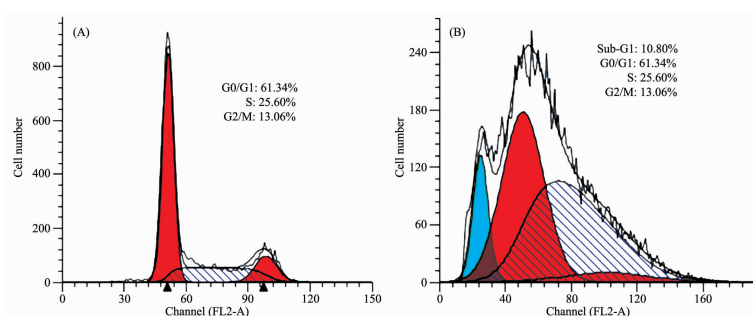


$\text{Bi}_{3.25}\text{Sm}_{0.75}\text{Ti}_3\text{O}_{12}$ (BSmT) nanowires exhibit higher photocatalytic activities in the degradation of methyl orange (MO) under visible light irradiation than that of traditional N-TiO_2 and pure $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ (BIT).

DNA Interaction and Antitumor Activities of Ruthenium(II) Polypyridyl Complex (English)

XU Li, CHEN Yu, WU Jia-Huan, WEN Ban-Kang

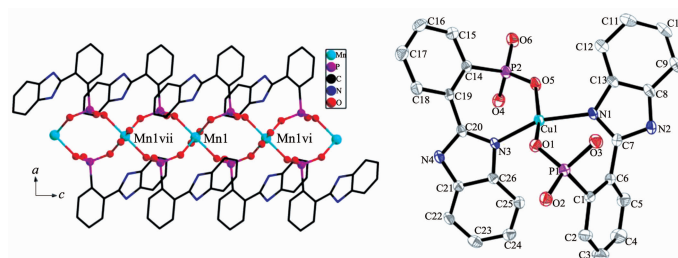
DOI:10.3969/j.issn.1001-4861.2013.00.107
Chinese J. Inorg. Chem., **2013**,**29**:613-620



Structures and Magnetic Properties of Metal Phosphonates Based on 2-(Benzoimidazol-2-yl)phenylphosphonic Acid: $[\text{Mn}(2\text{-bppH}_2)_2(\text{H}_2\text{O})]_n$ and $[\text{Cu}(2\text{-bppH}_2)_2] \cdot x\text{CH}_3\text{OH}$ (English)

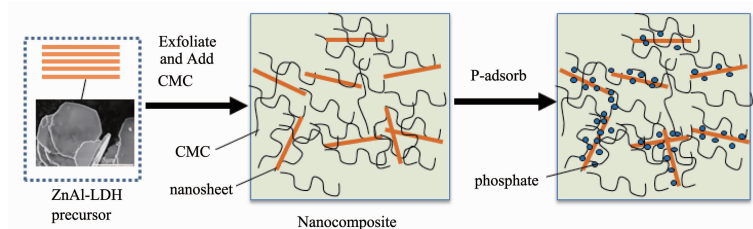
YANG Xiao-Jing, BAO Song-Song, ZHENG Li-Min

DOI:10.3969/j.issn.1001-4861.2013.00.037
Chinese J. Inorg. Chem., **2013**,**29**:621-627



Dispersion of ZnAl-LDHs Nanosheets by Cellulose to Improve Adsorption Capacity toward Phosphate (English)

ZHANG Yan-Ru, LIANG Du-Juan, WU Min, ZHAO Xin-Hua, YANG Xiao-Jing



DOI:10.3969/j.issn.1001-4861.2013.00.069
Chinese J. Inorg. Chem., **2013**,**29**:628-634

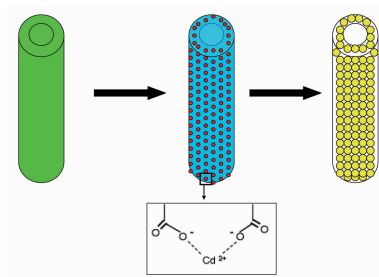
The title composite of ZnAl-LDHs nanosheets and carboxymethyl cellulose shows high selectivity toward phosphate adsorption and increases highly the phosphate-uptake amount.

Biotemplating Fabrication of CdS
Embedded Bionanowires at Room
Temperature (English)

GONG Ya-Qiong, ZHANG He-Nan,
ZHAN Huan, WEI Zeng-Yan, SU Wei

DOI:10.3969/j.issn.1001-4861.2013.00.094

Chinese J. Inorg. Chem., **2013**,**29**:635-641



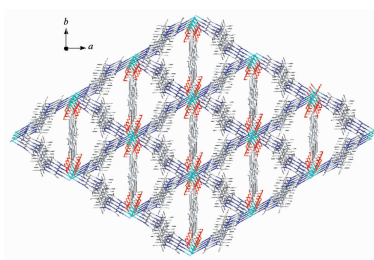
Synthesis of Cadmium Sulfide nanowires
at room temperature were achieved by
incubating templating bionanotubes with
cadmium chloride and sodium sulfide as
Cd and S precursors.

Synthesis, Structure and Properties of a
Porous Ni(II) Coordination Polymer
Constructed from 1,1'-(1,4-Butanediyl)
bis(imidazole) and *o*-Phthalate
Acid (English)

GONG Wei, NIU Qiong, NIU He-Lin, HU Lin,
MAO Chang-Jie, SONG Ji-Ming,
ZHANG Sheng-Yi, ZHENG Jun,
CHEN Qian-Wang

DOI:10.3969/j.issn.1001-4861.2013.00.115

Chinese J. Inorg. Chem., **2013**,**29**:642-648



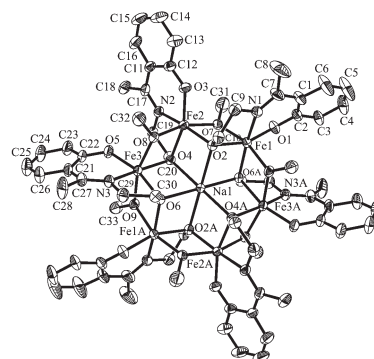
The 3-D nickel coordination polymer
with triangular channels is built up of
two kinds of infinite 1-D chains. It has
selectivity in adsorption of N₂ and CO₂
gas and shows an overall ferromagnetic
behavior.

Synthesis, Crystal Structure, Thermal
Stability, and Antimicrobial Activity of
a Hexanuclear Iron(III) Complex Derived
from 2-[1-(2-Hydroxyethylimino)ethyl]
phenol (English)

LI Hai-Hua, ZHOU Xiao-Xia, YOU Zhong-Lu

DOI:10.3969/j.issn.1001-4861.2013.00.080

Chinese J. Inorg. Chem., **2013**,**29**:649-653



A new hexanuclear iron (III) complex
derived from 2-[1-(2-hydroxyethylimino)
ethyl]phenol was prepared and
structurally characterized. The thermal
stability and antimicrobial activity of the
complex were studied.

Synthesis, Crystal Structure and
Properties of the Nickel(II) 4'-
(*p*-methoxyphenyl)-2, 2':6',2''-
terpyridine Complex

FU Wei-Wei, KUANG Dai-Zhi,
ZHANG Fu-Xing, LIU Yang, LI Wei,
KUANG Yun-Fei

DOI:10.3969/j.issn.1001-4861.2013.00.099

Chinese J. Inorg. Chem., **2013**,**29**:654-658

