

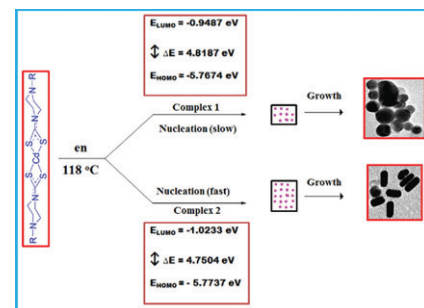
Contents

Azam Khan, Zia-ur-Rehman, Muneeb-ur- Rehman, Rajwali Khan, Zulfiqar, Amir Waseem, Azhar Iqbal, Zawar Hussain Shah

Inorganic Chemistry Communications 72 (2016) 33–41

CdS nanocapsules and nanospheres as efficient solar light-driven photocatalysts for degradation of Congo red dye

This article presents synthesis of CdS nanospheres and nanocapsules from new single source precursors. The nanocapsules were found more efficient visible light-driven photocatalyst than nanospheres due to longer life time of electron-hole pairs recombination

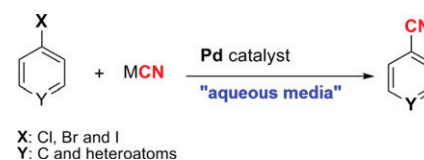


Majid Vafaezadeh, Mohammad Mahmoodi Hashemi, Mina Karbalaie-Reza

Inorganic Chemistry Communications 72 (2016) 86–90

The possibilities of palladium-catalyzed aromatic cyanation in aqueous media

A handful of successful achievements of Pd-catalyzed cyanation of aryl halides in aqueous media are reviewed.

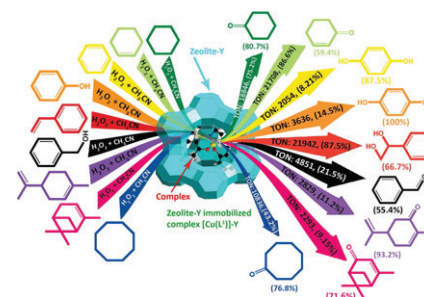


Dinesh R. Godhani, Haresh D. Nakum, Digvijaysinh K. Parmar, Jignasu P. Mehta, Nisheeth C. Desai

Inorganic Chemistry Communications 72 (2016) 105–116

Zeolite-Y immobilized Metallo-ligand complexes: A novel heterogenous catalysts for selective oxidation

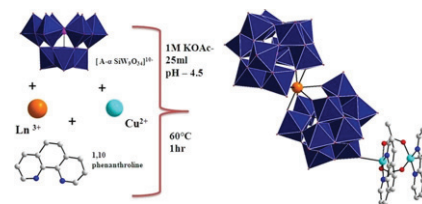
- ✓ A Co(II) and Cu(II) complexes are successfully immobilized with minimum concentrations (2–3%) within the nanopores of zeolite-Y.
- ✓ Immobilization is buttressed by ICP-OES, BET, FTIR, Uv-Vis and TG analysis.
- ✓ The synthesized immobilized complexes proficiently catalyzed the allylic oxidation (86.6–56.5%, TON 21708–11808) of cyclohexene compared to neat complexes (76.1–40.5%, TON: 545–332).
- ✓ Moreover, the [Cu(L¹)]-Y is found highly selective for oxidation of other organic substrate with high TON value (21942–2054).
- ✓ The absence of metal ion and/or metal complex leaching during catalytic study is reinforced by AAS.



**Swati Parbhakar, Rakesh Gupta,
Jogendra Nath Behera, Firasat Hussain**

Inorganic Chemistry Communications 72
(2016) 117–121

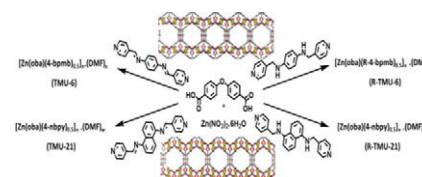
Sandwich type organic-inorganic hybrid of silicotungstates $[\{Cu_2(1,10\text{-phen})_2(\mu\text{-CH}_3\text{COO})_2\}Ln(\alpha\text{-SiW}_{11}\text{O}_{39})_2]^{11-}$ $\{Ln = \text{Pr}^{\text{III}}(\mathbf{1a}), \text{Nd}^{\text{III}}(\mathbf{2a}), \text{Sm}^{\text{III}}(\mathbf{3a}), \text{Eu}^{\text{III}}(\mathbf{4a}), \text{Gd}^{\text{III}}(\mathbf{5a}) \text{ and } \text{Dy}^{\text{III}}(\mathbf{6a})\}$ was synthesized in one pot reaction. These compounds were characterized using analytical techniques. Magnetic and photoluminescence properties were also studied.



**Fahime Bigdeli, Sedigheh Abedi,
Hassan Hosseini-Monfared, Ali Morsali**

Inorganic Chemistry Communications 72
(2016) 122–127

An investigation of the catalytic activity in a series of isorecticular Zn(II)-based metal-organic frameworks

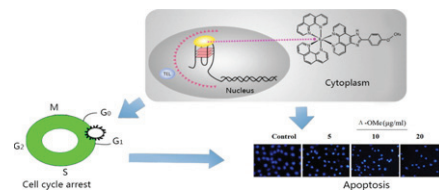


**Xiaonian Zhang, Zhujuan Huang,
Shaofeng Wu, Ruishan Lin, Jie Liu, Ning Su**

Inorganic Chemistry Communications 72
(2016) 1–6

Investigation of antitumor mechanism of the chiral ruthenium complex $\Lambda\text{-[Ru(phen)}_2\text{p-MOPIP}]^{2+}$ ($\Lambda\text{-OMe}$) in human gastric cancer MGC-803 cells

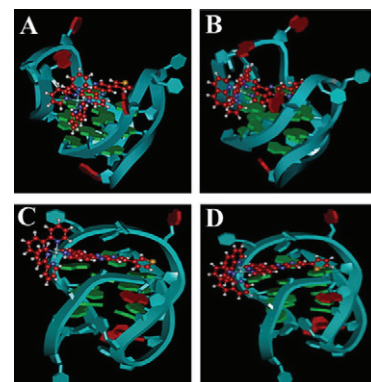
The chiral ruthenium complex $\Lambda\text{-[Ru(phen)}_2\text{p-MOPIP}]^{2+}$ ($\Lambda\text{-OMe}$) can significantly inhibit the proliferation of human gastric cancer MGC-803 cells by inhibiting telomerase activity, arresting cell cycle at the G0/G1 phase, altering the bax/bcl-2 ratio and triggering apoptosis.



Xin Wang, Lihong Pei, Xiumin Fan, Shuo Shi

Inorganic Chemistry Communications 72
(2016) 7–12

$[\text{Ru}(\text{L})_2(3\text{-tppp})]^{2+}$ ($\text{L} = \text{bpy}, \text{phen}$) stabilizes two different forms of the human telomeric G-quadruplex DNA



Download English Version:

<https://daneshyari.com/en/article/7748987>

Download Persian Version:

<https://daneshyari.com/article/7748987>

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