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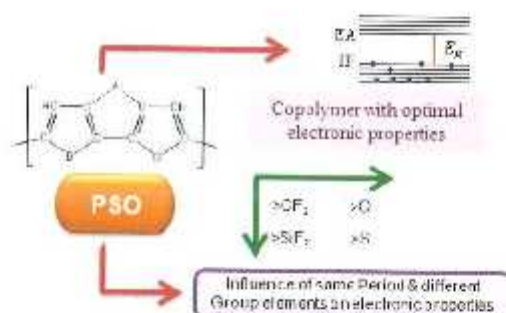
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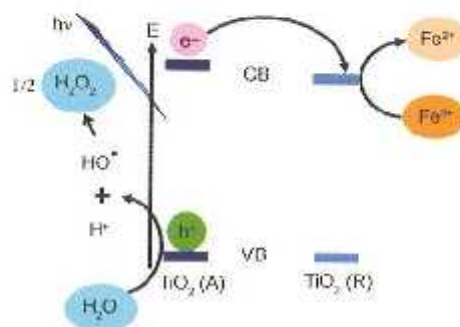
- 1069 Computational modeling of novel donor-acceptor ternary copolymers: Some interesting results



Priyanka Thakral & A K Bakhshi*

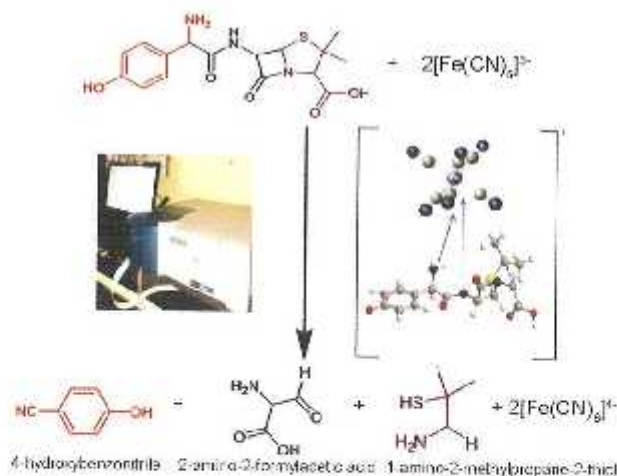
- 1076 Enhanced photocatalytic Fe^{2+} reduction with H_2O_2 generation by TiO_2 anatase/rutile blend

Photocatalytic reduction of Fe^{3+} ion with formation of H_2O_2 is higher by rutile blended anatase TiO_2 than by anatase TiO_2 nanocrystals.



C Karunakaran*, D Vasumathi & P Vinayagamoorthy

- 1085 Oxidation of amoxicillin by hexacyanoferrate(III) in aqueous alkaline medium—A kinetic and mechanistic approach

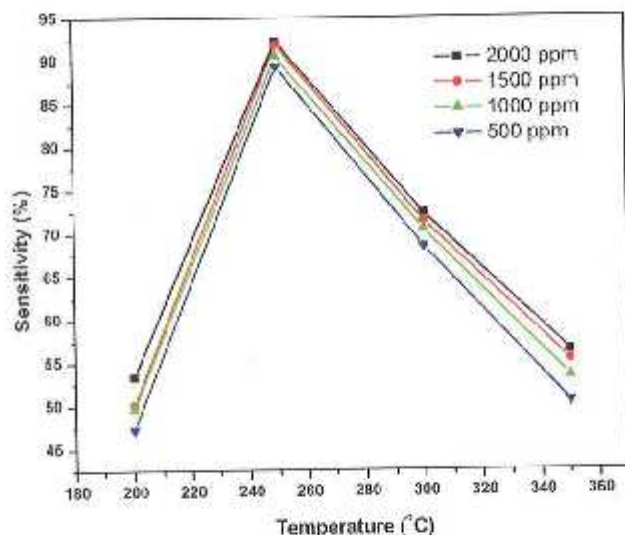


Amar K Durgannavar, Manjanath B Patgar & Shivamurti A Chimatadar*

Notes

1092 On the structural, morphological and gas sensing properties of nanocrystalline SnO₂

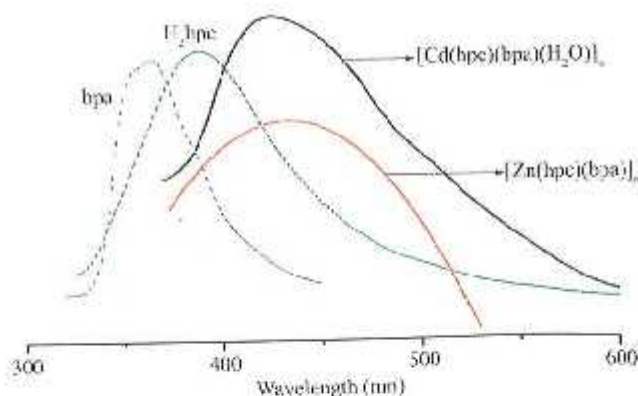
The gas response of crystalline SnO₂ nanoparticles synthesized by an oleic acid assisted solvothermal process increases nearly linear as the concentration of LPG increases from 500 ppm to 2000 ppm and is maximum at 250 °C.



A Muthuvinayagam & B Viswanathan*

1098 Two novel coordination polymers based on multicarboxylate derivatives and flexible dipyriddy ligand: Synthesis, structures and photoluminescent properties

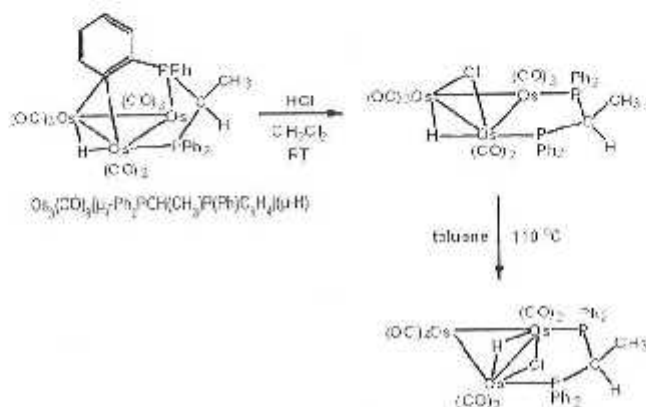
The reactions of 1,2-bis(4-pyridyl)ethane (bpa) and 4-hydroxyphthalic acid (H₂hpc) with Zn/Cd(II) salts yield two novel 2D layer structures. [Zn(hpc)(bpa)]_n comprises hpc anion-bridged mononuclear Zn(II) chains that are joined further by flexible *trans*-bpa ligands into a 2D layer. Different from the Zn(II) complex, the 2D layer structure of [Cd(hpc)(bpa)(H₂O)]_n features hpc-bridged binuclear Cd(II) motifs cross-linked by flexible *trans*-bpa ligands along different directions. These complexes show slightly different fluorescent properties, probably due to different metal ions and coordination environments.



Xiao-Ling Li, Guang-Zhen Liu*, Ling-Yun Xin,
Gui-Lian Li, Lu-Fang Ma & Jing-Wen Li

- 1104 Reaction of electron-deficient triosmium cluster $\text{Os}_3(\text{CO})_9[\mu_3\text{-Ph}_2\text{PCH}(\text{CH}_3)\text{P}(\text{Ph})\text{C}_6\text{H}_4](\mu\text{-H})$ with HCl: X-ray structure of two isomers of $\text{Os}_3(\text{CO})_9[\mu\text{-Ph}_2\text{P-CH}(\text{CH}_3)\text{PPh}_2](\mu\text{-Cl})(\mu\text{-H})$

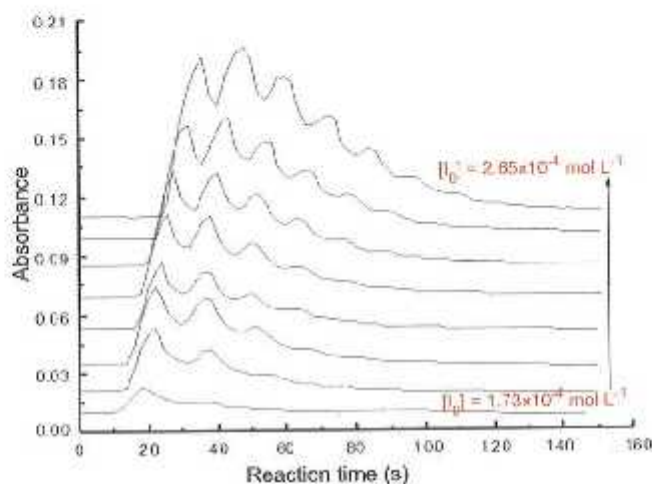
Reaction of electron deficient $\text{Os}_3(\text{CO})_9[\mu_3\text{-Ph}_2\text{PCH}(\text{CH}_3)\text{-P}(\text{Ph})\text{C}_6\text{H}_4](\mu\text{-H})$ with HCl yields two new triosmium clusters with the formula, $\text{Os}_3(\text{CO})_9[\mu\text{-Ph}_2\text{PCH}(\text{CH}_3)\text{PPh}_2](\mu\text{-Cl})(\mu\text{-H})$.



Md Miaz Uddin, Subas Rajbangshi, Shishir Ghosh, Tasneem A Siddiquee & Shariff F Kahir^{*}

- 1109 Chlorine dioxide-iodine-acetylacetone oscillation reaction investigated by UV-vis spectrophotometry

A new chlorine dioxide-iodine-acetylacetone chemical oscillatory reaction is studied by UV-vis spectrophotometry. Equations for the starch-triiodide complex reaction rate are obtained, and a plausible reaction mechanism is proposed for the oscillation reaction.



Laishun Shi[†], Demei Li, Jingjing Chen & Jian Gao

Authors for correspondence are indicated by (^{*})