

# Indian Journal of Chemistry

Sect. A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical

VOL. 58A

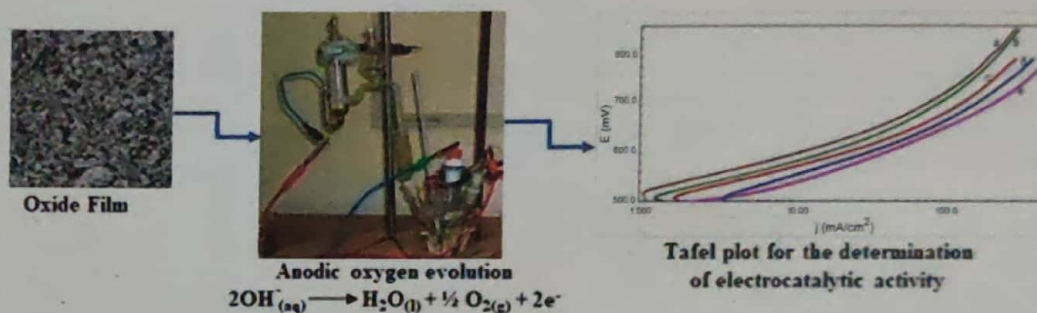
NUMBER 12

December 2019

## CONTENTS

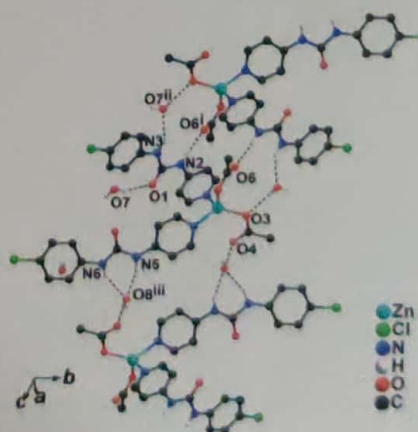
### Papers

- 1295 **Electrocatalytic properties of  $\text{La}_{1-x}\text{Cu}_x\text{CoO}_3$  ( $0 \leq x \leq 0.8$ ) film electrodes for oxygen evolution in alkaline medium: Part II. A comparative study** Perovskite-type oxide film electrodes of La, Cu and Co have been synthesized. Their electrocatalytic properties towards oxygen evolution reaction (OER) in alkaline medium are also studied.



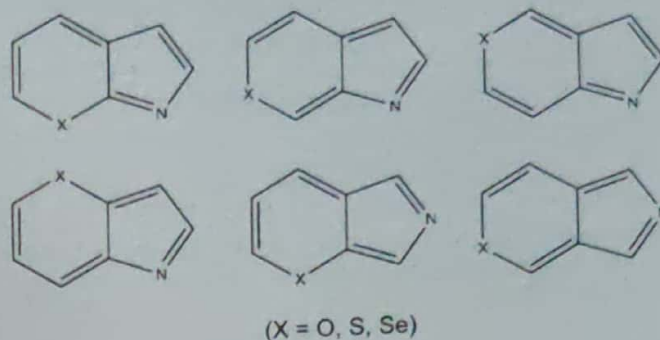
Manish Kumar Yadav, Basant Lal & Narendra Kumar Singh\*

- 1302 **Crystal structure, thermal analyses, and acetate binding properties in Zinc(II) complex of a urea-functionalized pyridyl ligand** A zinc(II) acetate complex with a urea-functionalized pyridyl ligand,  $[\text{ZnL}_2(\text{OAc})_2] \cdot 2\text{H}_2\text{O}$  (1), has been synthesized, and complex 1 features 3-D hydrogen bonded network formed by intermolecular  $\text{N}-\text{H} \cdots \text{O}$  and  $\text{O}-\text{H} \cdots \text{O}$  hydrogen bonds involving urea groups, acetate anions and bridged water molecules. The thermal stabilities and acetate binding properties are also investigated.



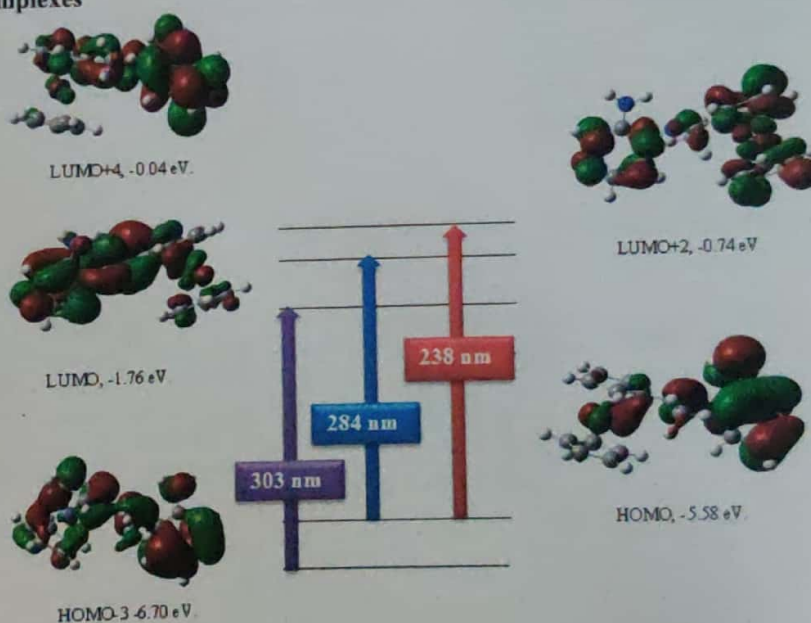
Zaiwen Yang\*, Shasha Sun, Yilong Liu, Xiangrong Liu\*, Shunsheng Zhao, Zhen Zhang, Xinjuan Chen, Zheng Yang & Xiaodan Jia

- 1311 **Theoretical study of structural effects on reactivity and stability of isomeric pyrano-, thiopyrano- and selenopyranopyrroles** DFT/B3LYP/6-311G(d,p) calculations were carried out to study the structures and reactivity for the isomeric structures of pyrano-, thiopyrano- and selenopyranopyrroles.



Mohammad Mehdi Khodaei\*, Abdolhamid Alizadeh & Parvin Ghanbari

- 1319 **Preparation, structural characterization, antimicrobial and anticancer activities, DFT and molecular docking studies of a nano ferrocenyl Schiff base and its metal complexes** 2-acetylferrocene Schiff base complexes were prepared and characterized with different tools. Their antimicrobial and anticancer activities were studied.



Walaa H Mahmoud, Reem G Deghadi\* & Gehad G Mohamed

- 1339 Annual Index
- 1343 Guide to Authors

Authors for correspondence are indicated by (\*)