

# Indian Journal of Chemistry

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

VOL. 58A

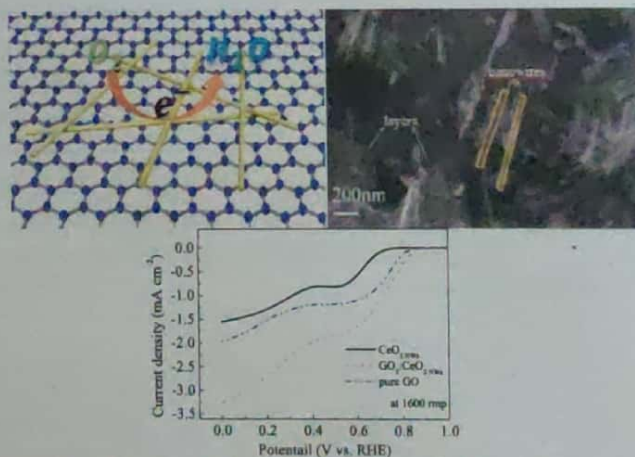
NUMBER 08

August 2019

## CONTENTS

### Papers

- 867 **CeO<sub>2</sub> nanowires inserted into reduced graphene oxide as active electrocatalyst for oxygen reduction reaction** A novel interconnected nano-architecture assembled by graphene nanosheets and CeO<sub>2</sub> NWs has been successfully prepared by the hydrothermal method. The imbedded CeO<sub>2</sub> NWs can effectively inhibit the graphene from restacking and restrain the coiled or folded of GO sheets, thus providing more channels for electron conduction.



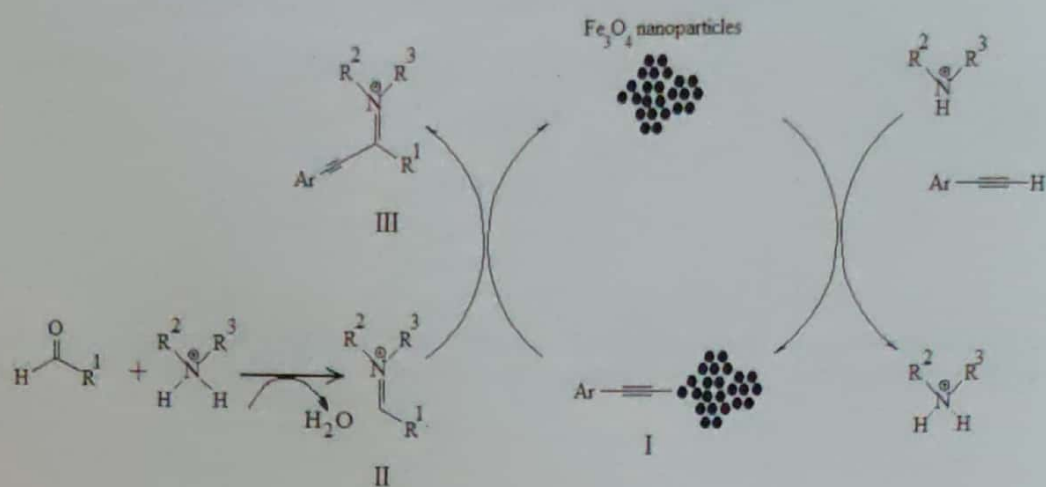
Yabo Sun, Yuanyuan Chu<sup>\*</sup>, Xiaoming Xia, Haitao Wang, Xiaoyao Tan<sup>\*</sup>, Zhao Dai & Liang Wang

- 874 **Phase transformation of boron nitride nanoparticles in aniline under moderate conditions** The sp<sup>3</sup>-bonded phases wBN and cBN could be formed at quite low temperature (250~280 °C) and low pressure (15~250 MPa) through the incorporation of bonding interactions between aniline and BN nanoparticles, due to the formation of sp<sup>3</sup>-bonded configurations with minimum energy.



Lingling Zhu<sup>\*</sup>, Luoqiang Liu, Xing Zhang, Xifeng Lu<sup>\*</sup>, Lifei He & Deliang Cui

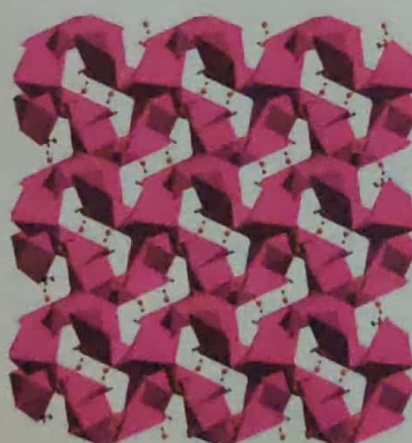
- 880 **Multicomponent synthesis of propargylamines in the presence of magnetic nanocatalyst** By using  $\text{Fe}_3\text{O}_4$  nanoparticles and applying microwave irradiation reaction time decreased significantly



H Emadi\* & A Nemati Kharat

#### Notes

- 886 **Synthesis and crystal structure of a new acetate bridged metal-organic framework constructed by Pr (III) with 5-aminoisophthalic acid- $[\text{Pr}(\text{CH}_3\text{COO})(\text{AIP})(\text{H}_2\text{O})_2]_n \cdot n\text{H}_2\text{O}$**  Packing diagram in polyhedral design when viewed along 'b' axis shows 'S' shaped pores and presence of lattice water molecules inside the pores shows its hydrophilic nature.



A Ashalatha, M R Sudarsanakumar\*, P R Sathesh Chandran & V S Dhanya

- 891 **Guide to Authors**

Authors for correspondence are indicated by (\*)