

# Indian Journal of Chemistry

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

VOL. 58A

NUMBER 07

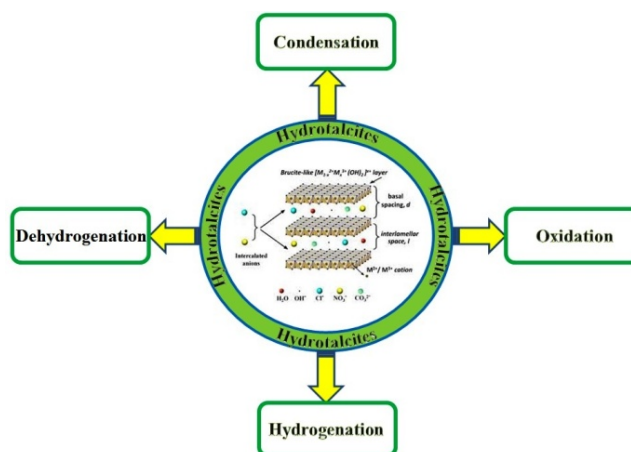
July 2019

## CONTENTS

### Papers

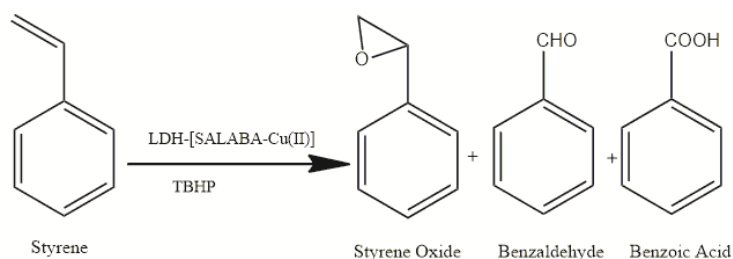
733 Catalysis by hydrotalcite materials

The active phase of hydrotalcites is mostly a mixed-oxide of two or more cations present in the precursor of the hydrotalcites which make it an efficient catalyst for a variety of organic transformations.



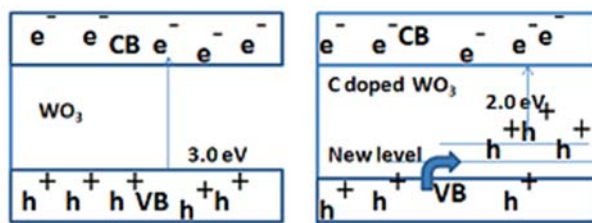
B Viswanathan\* & P Sangeetha

753 **Synthesis, characterization and catalytic activity of Cu(II) Schiff base complexes intercalated in layered doublehydroxide for the oxidation of styrene** An efficient heterogenous catalytic system, LDH-[SALABA-Cu(II)]/TBHP provides 81.27% conversion of styrene with ten times recyclability.



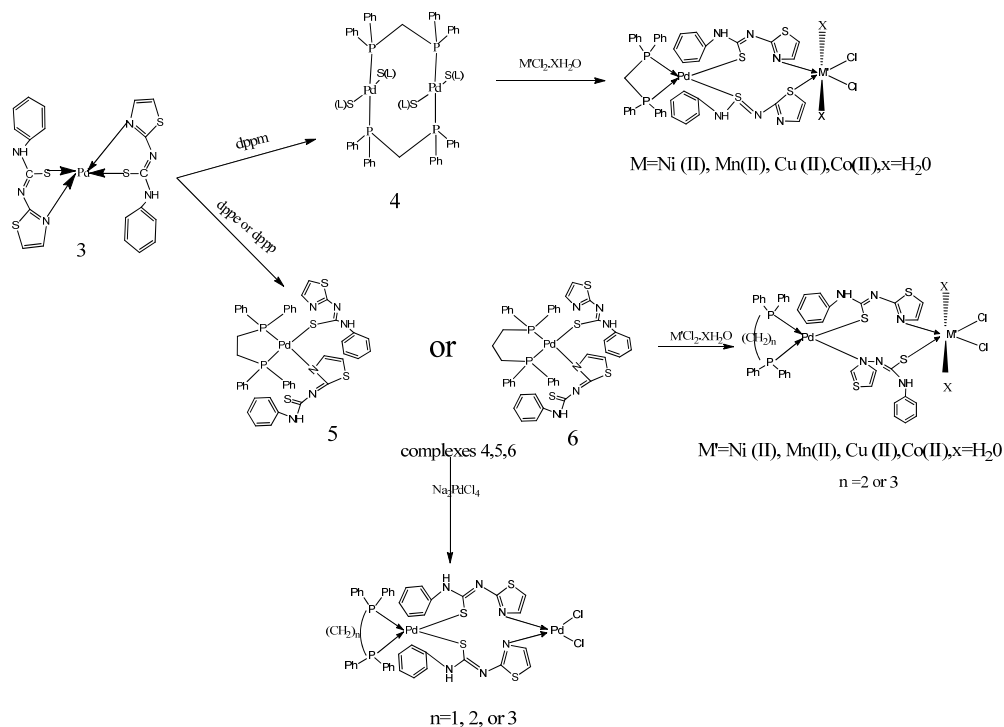
Swati Parashar & Savita Khare\*

- 763 **Enhancement of photocatalytic degradation of an organic pollutant by WO<sub>3</sub> nanopowders: carbon doping** Carbon doping decrease the band gap and increase the photo activity.



Vasanthi Pillay, Gundeboina Ravi & Vithal Muga\*

- 772 **Synthesis, cytotoxicity, antibacterial activity and molecular modeling study of new mono, homo and heterobimetallic complexes of palladium (II) with some transition metal ions containing the ligands N-phenyl-N'-(2-thiazolyl)thiourea and Diphosphines Ph<sub>2</sub>P(CH<sub>2</sub>)<sub>n</sub>PPh<sub>2</sub> (where n = 1–3)** Syntheses of the ligand (LH) and some Pd (II) mononuclear, homo and heterobimetallic mixed ligand complexes.



Nazk M Aziz\* & Bayazeed H Abdullah

- 783 **Guide to Authors**

Authors for correspondence are indicated by (\*)

### ***Now Subscription Payment Made Easy***

***Indian Journal of Chemistry, Sec A Subscribers***  
**You can now pay through ECS /NEFT /RTGS**

***Following are the details:***

Bank Name: SYNDICATE BANK  
Address: PUSA CAMPUS, IARI, NEW DELHI 110 012  
Branch: PUSA CAMPUS, IARI, NEW DELHI  
A/C No.: 90292160000079  
A/C Name: NISCAIR, NEW DELHI 110 012  
IFSC Code: SYNB0009029  
MICR Code: 110025041  
Branch Code: 9029  
SWIFT Code: SYNBINBB019

***Please send UTR no. with full postal address by e-mail  
after payment through ECS/NEFT/RTGS to:  
sales@niscair.res.in***