

## Editorial

*Mapana-Journal of Sciences* is in the eleventh year of publication. This issue consists of five articles pertaining to synthesis, catalysis, transition metal complexes and a brief review on coordination complexes in the field of chemistry.

The first article by Sreeja Rani K. Pillai et. al. deals with Friedel-Crafts benzylation of aromatics over the  $V_2O_5/ZrO_2$  catalysts systems. These catalysts are found to be very effective and considerably more selective than the conventional homogeneous Lewis acid catalysts.

B. P. Nethravathi and K. N. Mahendra have synthesised Ruthenium(III) and palladium(II) complexes of 2-methylbenzimidazole (Mebzlh) ligand encapsulated in the super cages of zeolite-Y and ZSM-5. The encapsulated complexes serve as active catalysts for the oxidation phenol to catechol and hydroquinone using  $H_2O_2$ .

The third article by Sunaja Devi K.R. and Sugunan S. on Liquid Phase Benzylation of Toluene over Modified Titania catalysts deals with synthesis and characterization of various Titania catalysts and investigating their catalytic efficiency for liquid phase Friedel-Crafts benzylation of toluene with benzyl chloride.

Sreeja P. B et. al. have synthesized ternary nickel(II) complexes with acid hydrazones and heterocyclic bases and characterized them by analytical and different spectral techniques. The magnetic properties of the synthesized complexes have also been studied.

The article by Riya Datta and Ramya V gives a brief review on synthesis of transition metal complexes derived from heteroaromatic cycles and Schiff bases and their applications as polymers, dyes and drugs. Authors have also elaborated on DNA - metal complex interactions and DNA cleavage properties.

We thank all the authors and reviewers for their cooperation and support in bringing out this issue of *Mapana*. We look forward to receiving your feed backs on these articles.

**Anitha Varghese**