



## Editorial

### Recent advances in Organic and Material Chemistry

To keep pace with the ever changing nature of scientific publication, we at *Mapana Journal of Sciences* are constantly striving for improvement in bringing the readership high-quality papers in a timely fashion.

The guidelines from the CHRIST management help us to maintain our commitment toward the prompt consideration of manuscripts that reflect high standards of quality and significance in the area of materials chemistry. Our goal is to publish work that is not largely routine or expected but rather innovative and broad sweeping. Thus, we are critically examining manuscripts for these features.

We understand that chemistry is incredibly diverse in the real world, both in terms of its practitioners and also how the science itself is defined and undertaken. Not all of our content will be of interest to everyone, everywhere and every time. This issue of *Mapana- Journal of Sciences* focusing on chemical sciences mainly covers recent trends in various organic and material chemistry.

The first article by Prof. Satyanaryana from IIT Hyderabad presents a palladium catalyzed intermolecular C–O bond formation for the synthesis of various aryl esters and has been achieved by coupling of carboxylic acids with iodoarenes in water and TBHP as the reaction medium. The second article from Prof. Rajesh from SASTRA University discussed about the synthesis of novel penta-coordinated 2- and 4-substituted pyridine *N*-oxide silicon complexes which were obtained by the reaction of various 2- and 4-substituted pyridine *N*-oxides with silicon pinacolate. However, Prof. Prabhakara Rao, Vignan University investigated the synthesis of various 2-(1,3-diphenyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazole derivatives by using Gadolinium(III) trifluoromethanesulfonate as a catalyst. Indeed, Prof. K. V. Radhakrishnan, NIIST described a review on the phytochemistry and pharmacological study of Menispermaceae family and the action of these plants against various infectious diseases, described in Ayurveda. Moreover, Dr. Vinod et. al from CHRIST, reviewed the recent advancements in

the preparation, properties, and applications of wettability gradients on soft surfaces. Moreover, Vandana et al. from CHRIST presented the application of FBRM Technology in the crystallization process.

In conclusion, we have a collection of good articles on organic chemistry which covers various organic transformations, review articles from natural products chemistry, material chemistry and a perspective on crystallization process. We would like to thank the authors and the CHRIST (Deemed to be University) management for their contribution to make this issue of *Mapana* meaningful by providing an opportunity to explore organic chemistry with the scientific community.

Warm Regards,

**Krishnaji Tadiparthi**  
Section Editor