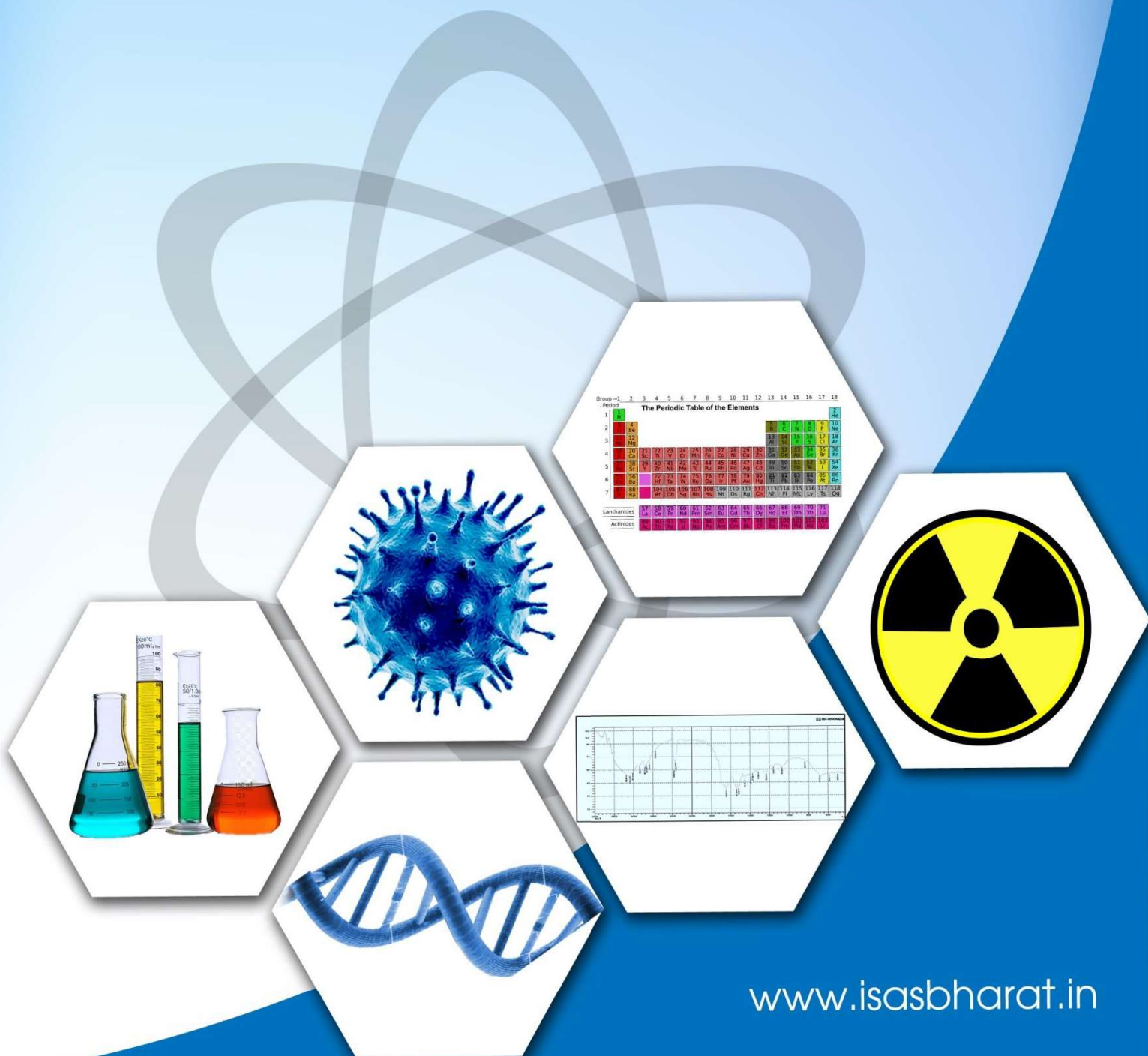




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Instruction to Authors

- The Manuscript should be typed in **MS word** (times new roman) with **1.5 spacings** and **font size 12**
- The **title** of the paper should be clear and concise(**font size 14 and bold**), the first letter of each noun and adjective in the title must be in capital letter. It will be followed by names of authors(initials followed by surname) with their affiliation (**font size 12**)
- Corresponding author should be indicated by * with email ID
- The text should be divided into following sections:
 - **Abstract : up to 300 words**
 - **Key words: 5-6**
 - **Introduction**
 - **Experimental**
 - **Results and Discussion**
 - **Conclusions**
 - **Acknowledgement**
- Figures and Tables should be before references with a caption **Figures:** Followed by **Tables:**
- **References**
 - Divisions within the section should be indicated as subheadings
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 - Standard abbreviations for technical terms and journals should be used
 - All constants should be expressed in **SI units**
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Indian Society of Analytical Scientists.



Editorial

It is with immense pleasure that I welcome you to the sixth issue of the Journal of Indian Society of Analytical Scientists (J.ISAS). This issue marks yet another significant milestone in our ongoing journey to explore, understand, and advance the field of analytical science, with a focus on computational chemistry, diffusion in solution, and nano-synthesis.

As we continue to navigate through the ever-expanding landscape of scientific knowledge, the contributions in this issue offer fresh insights, novel approaches, and ground-breaking research findings. In our pursuit of excellence, we have striven to bring forth a collection of research papers that exemplify the dynamism and vibrancy of the analytical sciences in India.

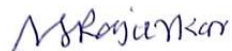
Computational chemistry has witnessed remarkable growth in recent years, and this issue features research paper that delve deep into the intricate world of molecular simulations investigating the reaction mechanism. Understanding the dynamics of molecules in solution is essential for a wide range of applications in various field. The research paper featured here delve into the complexities of diffusion in a solution state, shedding light on how diffusing ions move and interact with their surroundings. Through experimental studies and theoretical modelling, author provides insights into the factors that influence diffusion in gel medium. In a world where sustainable materials and medical advancements are of paramount importance, the research paper on polymer composites hold significant promise and open up a new perspective for applications in biomedicine. Nano-synthesis has become a cornerstone in the development of advanced materials with unique properties and applications The research papers in this issue focus on the synthesis and characterization of nanoparticles, offering a glimpse into the exciting world of nanotechnology. From the controlled growth of metallic

nanoparticles to the design of novel nanocomposites, these contributions showcase how nanosynthesis is at the forefront of innovation. The review of recently published booklet on nanosynthesis, at the end, provides a concise and comprehensive insight and navigates the readers to intricate world of nanotechnology

I want to express my deep appreciation to the authors, reviewers, and the editorial team for their dedication and hard work in bringing this issue to fruition. I wish to express my sincere gratitude towards ISAS president and Advisor of J.ISAS - Dr. Raghav Saran along with the committed individuals on the editorial board, Dr. Vijayalaxmi Adya and Dr. Vinay Bhandari, for their continuous cooperation. I appreciate the technical support extended by Shivani Kankar and Vaibhav Parse.

The success of J.ISAS is a testament to the commitment and passion of the scientific community. I hope that you will find the research papers in this issue as insightful and inspiring. Together, let us continue to foster a culture of analytical excellence and innovation in India, and the world.

Looking forward for your response and articles in future issue.



Dr. Nilima Rajurkar
Editor in Chief
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