

# Accounts of Chemical Education and Research

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## EDITORIAL

Chemistry is a discipline of cosmopolitan character. Chemistry sits at the interface of physics, biology, medicine, engineering, technology, pharmacy, forensic, law, industry and employ millions of people across the world. Acharya Prafulla Chandra Ray, Father of Modern Chemistry in India and the First President of the Indian Chemical Society realized it and had initiated to publish the Journal of the Indian Chemical Society since its inception in 1924. The Department of Science and Technology, Govt. of India advised the Society to popularise chemistry amongst the students and bridging the teaching and research in a meeting held in 2012. On following this request, the Society has initiated to publish a periodical "Education in Chemical Science and Technology" since 2013 which is now available in the form of Books. The objective is clarified in the 'Foreword' written by Prof. Animesh Chakravorty, an internationally acclaimed chemist of the country, "—to publish lucidly written and illustrated articles on themes cutting across the science and industry of chemistry and reflecting the wide spread of chemistry into other territories —." (Education in Chemical Science and Technology, 2013, Vol. 1). On considering the importance of teaching-learning-research in chemistry and industry the Society is serving as nodal body to publish a new journal, "**Accounts of Chemical Education and Research**". We are delighted to introduce the first issue of new peer reviewed journal on the inaugural function of 99<sup>th</sup> Foundation Day of the Indian Chemical Society on 9<sup>th</sup> May, 2022. This journal has significant potential of inclusion of transdisciplinary, interdisciplinary and multidisciplinary teaching and research in higher education in chemistry and the real-world importance in personal, organisational, national and global contexts. To popularize the chemical education and research and also to bridge the gap between the researchers and undergraduate and post-graduate chemistry students, this journal may play a very important role. In spite of tremendous scientific advancement, the challenges and opportunities of chemical education and research has not been properly explored. Undoubtedly chemistry education is of paramount importance in enhancing the quality of teaching and research. In this journal an attempt has been made to connect

fundamental research to teaching methodologies. Research oriented teaching is one of the core issues of New Education Policy.

The inaugural issue of the journal is a collection of nine manuscripts related to several novel areas of chemical sciences such as Chemistry education in India for the 21st century learning needs, Multitude of elementary chemical reactions between the first two elements in the Periodic Table, Colloidal Stability and Schulze-Hardy Rule, Fundamentals of NMR Spectroscopy, Alkali containing molecular ions in secondary ion mass spectrometry for chemical analysis, photochromic liquid crystal, understanding of single crystal X-ray crystallography, Modelling of periodate oxidation of aromatic amines and path to quantum mechanics from classical mechanics. We highly appreciate the sincere efforts of dedicated authors Prof. Dulal Chandra Mukherjee, Prof. N. Sathyamurthy, Prof. Satya Priya Moulik, Prof. Ashok Kumar Bakshi, Prof. Ramakrishna V. Hosur, Prof. Purushottam Chakraborty, Prof. R. D. Kaushik, Prof. Chittaranjan Sinha and Prof. Deepak Chopra for their contribution in Inaugural issue and solicit their continuous support to this journal.

The editorial board extends heartfelt gratitude to all the conscientious and generous colleagues of chemistry fraternity for very fast review process. The board also welcomes prospective authors to contribute manuscript on chemical education, popularization of chemistry, chemical safety, laboratory experience of scientists in Industry and academia, biography of established chemists of the country and pedagogy of education in chemistry etc.

Hope you enjoy reading this first issue.

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