



## Editorial

This special issue (2nd issue) on Biomedical Materials Innovation is dedicated towards the work presented in the SBAOI and STREMI annual meeting 2020 (International Conference) organized virtually by the Department of Nanoscience and Technology, Bharathiar University, Coimbatore and co-organized by Department of Analytical Chemistry, University of Madras, Chennai; Indian Institute of Science, Bangalore; Indian Institute of Technology, Delhi and Indian Institute of Technology, Guwahati. The demand for biomaterials and health-care related materials in various medical applications has been increasing significantly across the globe over the last decade, and has been even more acute these days. This special issue of “Biomedical Materials Innovation” is aimed at providing the recent advances in fundamental research on biomaterials as well as the forefront of their medical applications. This special issue (2nd issue) encompasses original research articles on topics ranging from,

- ◆ Combinations of polymeric, ceramic and metallic biomaterials and alloys in biomedical materials research fields
- ◆ Neural Networking
- ◆ Natural Materials
- ◆ Drug Delivery
- ◆ Organ Printing

We trust the topics covered in the special issue will benefit the researchers working in the area of biomedical materials.

**Dr. A.Balamurugan**

*Bharathiar University Coimbatore, India*

**Dr. T.M. Sridhar**

*University of Madras, Chennai, India*

**Prof. Ashok Kumar**

*Indian Institute of Technology, Kanpur, India*

**Dr. Prerna Singh**

*Indian Institute of Technology, Kanpur, India*

## Editorial Team



Dr. A. Balamurugan is an Assistant Professor at Department of Nanoscience and Technology, Bharathiar University, Coimbatore, India. His research interests lie in water splitting techniques for energy applications, regenerative materials for biomedical applications, development and evaluation of sol-gel ceramic coatings for biomedical applications, elaboration of bioglass and evaluation of special alloys for biomedical applications, electrochemical corrosion studies and surface characterization.



Dr. TM. Sridhar is an Assistant Professor and Head at Department of Analytical Chemistry, University of Madras, Chennai, India. His research expertise lies in the area of analytical chemistry, bio ceramics, hydroxyapatite biomaterials, hydrogels and graphene based ceramic composite for drug delivery, bone tissue engineering and orthopedic applications. He also specializes in nano bioceramic and anti-corrosion coatings, image processing and electrospinning of nanofibers.



Prof. Ashok Kumar is a Rajeeva and Sangeeta Lahiri Chair Professor of Bioengineering at the Department of Biological Sciences and Bioengineering and Head of the Department of Centre for Environmental Sciences & Engineering, Indian Institute of Technology Kanpur, India. His areas of research interest include biomaterials, tissue engineering, regenerative medicine, stem cell research, bioprocess engineering, bioseparations, nanotechnology and environmental biotechnology.



Dr. Prerna Singh is a Post-Doctoral Fellow in the Department of Biological Sciences and Bioengineering, Indian Institute of Technology Kanpur, India. Her research areas include biomaterials, tissue engineering, regenerative medicine, stem cell research, wound healing, exosome therapy for disease conditions, phytomedicine, stress biology, bioinformatics & proteomics.