

# Preface

This edition includes papers presented at the International Conference on Recent Advancements in Biomedical Engineering (ICRABE'21) and is devoted to applying modern nanomaterials and nanotechnologies in some areas of human activity.

The first chapter presents a series of critical reviews on applying nanomaterials and nanotechnologies in tribology, building materials, medicine and biofuel production.

In the following two chapters, the reader can get acquainted with using nanomaterials to determine the level of pollution and their degradation in water and wastewater treatment and assess the level of pesticides in agricultural products.

The last chapters present research results on the application of nanomaterials in biochemical research and pharmacology.

The book will be useful to specialists in the field of synthesis of nanomaterials and wide use of nanotechnologies.

## **From Editors of International Conference on Recent Advancements in Biomedical Engineering (ICRABE '21)**

The editorial team welcomes all readers to the proceedings of the International Conference on Recent Advancements in Biomedical Engineering (ICRABE '21). The conference was inspired by the fusion of science and engineering principles in healthcare services and products. The conference aims to initiate exchange of innovative ideas between students, research scholars and faculties. Specifically, applications of nanotechnology in healthcare, environmental protection were emphasized. This proceeding comprises a broad spectrum of techniques to expose the recent advancements in the field of Biomedical Engineering.

500 participants pre-registered for the conference representing approximately 80 academic and research institutes across the globe. Around 160 participants disseminated their findings during 3 parallel sessions held virtually on March 17-19, 2021 within the framework of ICRABE '21. The manuscripts in this proceeding are accepted after a double-blind peer review process.

Finally, we express our gratitude to the contributors of the proceedings, speakers, participants, delegates and all the internal committee members for their support in the conduction of the event.

Ramji Kalidoss  
Editor