



Advances in Mechanics of Biomaterials

Guest Editors:

Dr. Linxia Gu

Department of Biomedical
Engineering and Sciences,
Florida Institute of Technology,
Melbourne, FL 32901, USA

Dr. Shailesh Ganpule

Department of Mechanical and
Industrial Engineering, Indian
Institute of Technology Roorkee,
Roorkee 247667, India

Dr. Lulu Wang

Biomedical Device Innovation
Center, Shenzhen Technology
University, Shenzhen 518118,
China

Deadline for manuscript
submissions:

closed (20 April 2024)

Message from the Guest Editors

Dear Colleagues,

The mechanics of biomaterials are known to influence the prevention, diagnosis, prognosis, and treatment of various diseases and injuries. Mechanical cues regulate the cellular differentiation and adhesion, as well as the tissue remodeling and growth. This Special Issue focuses on the application of engineering principles relating to material science and biology to achieve a better understanding of biomaterials at different scales. Computational techniques and/or experimental characterizations of biological and replacement biomaterials at multiple scales are sought to quantify their structure-function relationships. Manuscripts which discuss the development of new prevention solutions, treatment methodologies, as well as new biomaterials such as functionally graded materials are also desired.

Dr. Linxia Gu

Dr. Shailesh Ganpule

Dr. Lulu Wang

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)