Special Issue

Biocompatible Research of Materials in Biomedical Applications

Message from the Guest Editors

Developing biocompatible materials is fundamental to advancing modern healthcare, particularly in the design and optimization of artificial organs, targeted drug delivery systems, vascular grafts, regenerative medicine, cancer therapies, tissue engineering, and bioimaging or biosensing platforms.

In recent decades, remarkable progress has been made toward creating safer, more efficient, and multifunctional biomaterials. These include polymer, polymer blends and composite materials, advanced membranes, hydrogels, nano-/microfibers, scaffolds, thin films, nano-/microparticles, and capsules.

This Special Issue aims to showcase recent advances in the synthesis, characterization, and application of novel biocompatible materials and devices. Submissions from multidisciplinary and interdisciplinary teams are strongly encouraged to foster meaningful knowledge exchange across diverse scientific fields. Both original research articles and in-depth reviews are welcome, contributing to a comprehensive understanding of the current landscape and future directions in biocompatible material development.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the Journal of Functional Biomaterials (JFB) is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. JFB seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama

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