Special Issue

Nanofibers for Biomedical and Healthcare Applications

Message from the Guest Editors

Nanofibers are revolutionizing biomedical and healthcare applications due to their high surface area, tunable porosity, and excellent biocompatibility. Their versatility allows for numerous applications aimed at enhancing health and medical outcomes. This Special Issue delves into the significant roles of nanofibers in drug delivery systems, tissue engineering scaffolds, wound dressings, healthcare, and filtration systems for air and water purification. Moreover, nanofibers can be functionalized with bioactive compounds to enhance their therapeutic effects, making them very versatile in healthcare applications. The scope of this Special Issue encompasses the various functionalities and innovations associated with nanofibers in the medical domain. This Special Issue aims to provide a comprehensive overview of the advancements, challenges, and future directions in the field of nanofibers for biomedical and healthcare applications, making it an essential resource for anyone interested in the intersection of nanotechnology and medicine. Therefore, we welcome research and review papers (both theoretical and experimental), as well as scientific letters and reports.

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About the Journal

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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