

Special Issue

Advances in Biomaterials and Biopolymers

Message from the Guest Editors

The aim of this Special Issue, “Advances in Biomaterials and Biopolymers”, is to cover the most important issues facing the use of biomaterials in clinical practice, which includes topics related to polymer synthesis and characterization, drug-release systems design, regenerative medicine, and tissue engineering methods, followed by the evaluation of functional biomaterials and their biofunctional properties and the biological responses of the host.

Furthermore, a strong research focus on alternatives to petroleum-based products such as biopolymers and biobased polymers is observed. The urgent need for sustainable solutions drives the rapid development of scientific efforts for environmental and biomedical applications of biopolymers due to their wide range of chemical structures and modification possibilities, lability to degradation, nontoxicity, and biocompatibility. Therefore, this Special Issue is also covering issues related to the properties of biopolymers, their syntheses routes, processing and modification methods, as well as the possibilities of their application, with emphasis on the biomedical field.

Guest Editors

Dr. Joanna Mystkowska

Institute of Biomedical Engineering, Białystok University of Technology,
Wiejska 45C, 15-351 Białystok, Poland

Dr. Magdalena Mazurek-Budzyńska

Faculty of Chemistry, Warsaw University of Technology, Noakowskiego
3, 00-664 Warsaw, Poland

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jfb@mdpi.com

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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

School of Engineering and Materials Science, Queen Mary University of London, London, UK

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