



an Open Access Journal by MDPI

## Biodegradable Polymers and Textiles

Guest Editors:

**Dr. Sandra Varnaitė-Žuravliova**

Department of Textiles Physical-Chemical Testing, Center for Physical Sciences and Technology, Demokratų Str. 53, Kaunas, Lithuania

**Dr. Jolanta Sereikaitė**

Department of Chemistry and Bioengineering, Faculty of Fundamental Sciences, Vilnius Gediminas Technical University, Vilnius, Lithuania

**Dr. Julija Baltušnikaitė-Guzaitienė**

Department of Textiles Physical-Chemical Testing, Center for Physical Sciences and Technology, 48485 Kaunas, Lithuania

Deadline for manuscript submissions:

**20 November 2024**



[mdpi.com/si/88442](https://mdpi.com/si/88442)

### Message from the Guest Editors

In recent years, the world's population has grown substantially and with this the need for different synthetic and natural products and clothing. Resulting wastewaters and environmental pollution has also increased significantly. However, with modern chemicals and processes, many products used in everyday life can be replaced by biodegradables. Therefore, the developing of a wide range of biodegradable polymeric materials, and the designing of new catalysts or polymerization methods to reduce the application cost of biodegradable polymeric materials, should become one of the main features of research in the scientific community.

This Special Issue will focus on, but is not be limited to, recent advances and emerging challenges in the field of fabrication, application, research, and technical properties of biodegradable polymers and natural or biosynthetic textiles. Likewise, the investigation of secondary recycled materials would be of interest as well.

### Keywords

- biodegradable materials
- biopolymers
- biosynthetic polymers
- natural fibers
- coatings
- polymer composites
- recycling



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Pankaj Vadgama

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

## 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.

## 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), PubMed, PMC, Embase, Inspec, CAPlus / SciFinder, AGRIS, and other databases.

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

## Contact Us

---

*Journal of Functional Biomaterials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/jfb](http://mdpi.com/journal/jfb)  
[jfb@mdpi.com](mailto:jfb@mdpi.com)  
[X@JFB\\_MDPI](https://twitter.com/JFB_MDPI)