

## Special Issue

# Advanced Biomaterials and Technologies for Enhanced Tissue Repair and Regeneration

### Message from the Guest Editors

This Special Issue, 'Advanced Biomaterials and Technologies for Enhanced Tissue Repair and Regeneration', welcomes original research articles and reviews on advanced biomaterials, innovative processing strategies, and validation in relevant biological models. We particularly encourage contributions on melt electrowriting, electrospinning, and 3D printing/biofabrication to create instructive architectures for wound healing and bone regeneration, including multifunctional systems with antimicrobial and pro-angiogenic activity. We also welcome works on surface functionalization and laser processing strategies for micro-/nano-structuring, as well as coating technologies enabling precise control of wettability, roughness, and biological response. Contributions combining advanced spectroscopic or multimodal characterization with structure–property–function correlations to monitor degradation, integration, or tissue regeneration are strongly encouraged. We invite you to submit your latest findings and help shape a collection that bridges advanced processing, reliable characterization, and translational impact.

### Guest Editors

Dr. Daniel Sola

1. Aragonese Foundation for Research and Development (ARAID), 50018 Zaragoza, Spain
2. Instituto de Nanociencia y Materiales de Aragón, Universidad de Zaragoza–CSIC, 50018 Zaragoza, Spain

Dr. Irem Unalan

Institute of Biomaterials, Department of Materials Science and Engineering, Friedrich-Alexander-University Erlangen-Nuremberg, 91058 Erlangen, Germany

### Deadline for manuscript submissions

30 September 2026



## Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/275232](https://mdpi.com/si/275232)

*Journal of Functional Biomaterials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jfb@mdpi.com](mailto:jfb@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[jfb](https://jfb.mdpi.com)





# Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/)

[jfb](https://mdpi.com/journal/jfb)



## 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

---

### 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, Ei Compendex, Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Biomedical) / CiteScore - Q1 (Biomedical Engineering)