Special Issue

Recent Advances in Gels for Tissue Engineering

Message from the Guest Editors

This Special Issue focuses on the recent advances of hydrogels and their application in tissue engineering. Submissions are welcome on the following topics:

- Hydrogels functionalized with novel stimuli-responsive, bioactive, and cell-instructive materials, for promoting angiogenesis and (stem) cells differentiation.
- Integration of hydrogels with orthogonal ligands.
- Hydrogels with mechanical anisotropy for mimicking tissues (e.g., osteochondral tissue).
- Biofabrication using hydrogel-based bioinks.
- Surface engineering of uni- or multi-cellular organisms with hydrogels.
- AI-driven design and optimization of hydrogels.

Guest Editors

Dr. Wildan Mubarok

Division of Chemical Engineering, Department of Materials Engineering Science, Graduate School of Engineering Science, Osaka University, Toyonaka, Japan

Prof. Dr. Yujiang Fan

National Engineering Research Center for Biomaterials, Sichuan University, Chengdu 610065, China

Deadline for manuscript submissions

31 October 2026

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/255468

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

mdpi.com/journal/jfb

Journal of Functional Biomaterials

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed

mdpi.com/journal/jfb

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Biomedical) / CiteScore - Q2 (Biomedical Engineering)