

Special Issue

Advances in Multifunctional Hydrogels for Biomedical Application (2nd Edition)

Message from the Guest Editor

Due to their three-dimensional hydrophilic network structure, multifunctional hydrogels are the focus of academic research regarding the application of functional materials to simulate human natural tissues. This Special Issue, entitled “Advances in Multifunctional Hydrogels for Biomedical Application (2nd Edition)”, will address the preparation, characterization, and application of multifunctional hydrogels in the biomedical field. In this Special Issue, we will discuss recent developments in multifunctional hydrogels, including new synthesis and cross-linking methods, characterization methods and biomedical applications. Although important advances in drug/unit delivery, tissue engineering and tissue repair have been made, further interdisciplinary endeavors are required to achieve a more detailed understanding of the structural interrelationships, properties and applications of multifunctional hydrogels. This will promote the personalized and customized development of multifunctional hydrogels, and promote their application in the treatment of various diseases.

Guest Editor

Dr. Cheng Hu

National Engineering Research Center for Biomaterials, Sichuan University, Chengdu 610064, China

Deadline for manuscript submissions

30 November 2025



Journal of Functional Biomaterials

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 6.8
Indexed in PubMed



mdpi.com/si/240836

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

[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 - Q2 (Biomedical Engineering)