

## Special Issue

# Antibacterial Biomaterials for Medical Applications

### Message from the Guest Editors

Microbial infection poses a great threat to human health. Over the past century, antibiotic therapy has played a crucial role in antimicrobial treatment. However, the overuse of antibiotics has led to the emergence and spread of antibiotic-resistant microbes, posing a great challenge to clinical treatment. Therefore, it is crucial to develop novel antimicrobial biomaterials with potent antimicrobial activity and biosafety against antibiotic-resistant microbes and novel technologies and strategies to address the challenge of drug-resistant microorganisms. The aim of this Special Issue is to discuss the advances and applications of antimicrobial biomaterials, including, but not limited to, addressing microbial infections, bacterial biofilm infections, antibiotic resistance, and the biosafety of antimicrobial drugs. Research and review articles on antimicrobial biomaterials for medical applications are welcome. We look forward to receiving your valuable contributions.

### Guest Editors

Dr. Min Zhou

School of Materials Science and Engineering, East China University of Science and Technology, Shanghai, China

Dr. Yueming Wu

School of Materials Science and Engineering, East China University of Science and Technology, Shanghai, China

### Deadline for manuscript submissions

20 December 2024



## Journal of Functional Biomaterials

an Open Access Journal  
by MDPI

Impact Factor 5.0  
CiteScore 4.6  
Indexed in PubMed



[mdpi.com/si/204593](https://mdpi.com/si/204593)

*Journal of Functional Biomaterials*  
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](#)





# Journal of Functional Biomaterials

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.0  
CiteScore 4.6  
Indexed in PubMed



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

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



## 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, Inspec, CAPlus / SciFinder, AGRIS, and other databases.

#### Journal Rank:

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