

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.

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Deadline for manuscript submissions

closed (10 May 2026)



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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
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