Special Issue

Antibacterial Biomaterials

Message from the Guest Editor

Microbial infections on biomaterials or implanted devices can lead to severe postoperative complications, and are therefore a prominent concern in the healthcare industry. For example, biofilm formation can strongly compromise the wound-healing process, device integration, and lead to the emergence of antibiotic resistance. Recent advances have been made to implement antimicrobial properties in the design of biomaterials in order to overcome these infection-related complications. The goal of this Special Issue is to compile recent advances in antimicrobial biomaterial design and give a focused overview on new and trending research in the field. Keywords

- antimicrobial agents
- silver ion
- metal-exchanged zeolite
- polymer engineering
- polymer synthesis
- surface functionalization
- antimicrobial peptide
- antimicrobial agents immobilization
- bactericidal additives
- antimicrobial agents diffusion
- new drug delivery systems
- microbiocidal
- infection control

Guest Editor

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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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