Special Issue

Tribology for Biomedical Applications

Message from the Guest Editors

As biomaterials science and engineering has progressed quickly over the past decades, the development of this field has shifted to the design of new materials and devices wherein the functionality, reliability, and biocompatibility have become more specific and significant. Tribology-related behavior is one of the key points for the above aspects.

Therefore, to assure the functionality, reliability, and biocompatibility of biomaterials, especially for long-term implanted medical devices, studying various tribological damage mechanisms and obtaining optimum properties is one of the most important goals. Driven by this point, more and more investigations have been conducted on fundamental theories, bionic design, damage palliative related to tribology in biomedical applications.

In this Special Issue, we invite researchers to provide original research articles, as well as review articles focusing on multiple issues, such as the obtainment, characterization, structure, and original aspects about tribological performances of biomaterials, possibly revealing novel design technologies, advantages, disadvantages, and their various biomedical applications.

Guest Editors

Dr. Jian Song

Dr. Yuhong Liu

Dr. Benjamin Winkeljann

Deadline for manuscript submissions

closed (31 August 2023)



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

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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

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