Special Issue

Bioceramics and Bioactive Glass-Based Materials

Message from the Guest Editors

The 21st century has brought tremendous interest in bioceramics. They possess several properties which recommend them for biomedical applications, the most important one being tissue-bonding bioactivity. Bioactivity– the property of materials to bond with tissues in vivo – of calcium phosphate-based materials has been intensely researched in the last decade, both for calcium phosphate bioceramics, as well as calcium phosphate-containing bioglasses. These types of materials can easily bond with hard tissues and under certain conditions even with soft tissues. Therefore, their use in or as different types of scaffolds utilized for tissue engineering has been growing. In this special issue we aim to collect high-quality research on the following topics related to bioceramics and bioglasses:

- Synthesis and Preparation
- High-Resolution Characterisation
- In Vitro and In Vivo testing
- Biomedical Applications
- Tissue Engineering

It is our pleasure to invite all of you to submit your research to this special issue. Research Articles, Short Communications and Review Papers are welcome!

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2022)



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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

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