



Metals for Biomedical Applications: From Experiments to Computer Models

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Message from the Guest Editor

Dear Colleagues,

One of the main aims of modern societies is to extend the life expectancy of their citizens. However, this extension has no meaning if it is not accompanied with an improvement in life quality, independently of the age range. To achieve these objectives, the synergy of medicine and engineering is necessary. One of the fields where this collaboration has proven fruitful has been in the field of materials engineering. Biomaterials are the result of this close collaboration.

Progress in the field of metallic biomaterials requires not only experimentation with these materials, but also theoretical studies and the development of computer models. These studies allow us to understand the properties and response of these metals to the biological environment, helping to optimize biomedical design using them.

This special issue of Metals contemplates the publication of original research papers in the topic of metals as biomaterials. These investigations can be related with:

- Design
- Processing and manufacturing
- Physical/mechanical behaviour
- Degradation/environment interaction
- Theoretical models
- Mathematical modelling
- Computer simulation
- Experimental research





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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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