

Special Issue

Titanium and Its Alloys for Biomedical Applications

Message from the Guest Editor

The Special Issue proposes novel results on several aspects of titanium and its alloys for biomedical applications. For this purpose, we warmly welcome submissions, including regular research papers, short communications, and reviews describing current research trends and future perspectives in titanium and its alloys for biomedical applications. The following topics, though not exclusively, fall within the scope of the Special Issue:

- New Ti alloy design for reducing the mechanical mismatch;
- Heat treatment and plastic deformation processing to enhance mechanical properties;
- Surface coating to improve biological responses;
- Manufacturing of porous titanium;
- Additive manufacturing of titanium and its alloy;
- Evaluation of antibacterial properties and cytotoxicity of titanium;
- Characterization of the mechanical behavior of titanium;
- New trends in titanium and its alloy.

Guest Editor

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Deadline for manuscript submissions

closed (1 November 2021)



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About the Journal

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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