

Special Issue

Metallic Biomaterials Surface Engineering

Message from the Guest Editors

Osseointegration is a natural phenomenon that occurs in the appropriate conditions. The surface chemical composition, texture and shape of items, play an essential role in the success of the medical procedure to which the patient should be subjected. This Special Issue aims to publish some of the best research and reviews performed in the area of metallic biomaterials applications and will cover several topics like:

- Surface modifications for enhanced biological response
- Surface modification for infection control
- Biodegradable coatings and metallic biomaterials
- Bio-functionalization
- Cold plasma treatments
- Additive manufacturing of metallic biomaterial
- New alloys as biomaterials
- Porous metallic biomaterials
- Osseointegration
- Metal/tissue interfaces
- Computer-aided design of metallic implants and prosthesis
- Biomechanical design and characterization
- New trends in metallic biomaterials

Guest Editors

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Deadline for manuscript submissions

closed (28 February 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.

Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).