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Metallic Biomaterials Surface Engineering

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Deadline for manuscript submissions:

closed (28 February 2021)

Message from the Guest Editors

Dear Colleagues,

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











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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 metallurgical field the 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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