Special Issue

Advances in Biomedical Metallic Materials

Message from the Guest Editors

The application of metallic materials in orthopaedics and dentistry has gained great importance in recent years due to their excellent structural properties and the toughness of metals and alloys. This Special Issue aims to cover the most innovative topics and strategies currently being followed in the development of alloys and processes for biomedical applications. For this reason, the development of new alloys or the application of new surface modification treatments is quite important. This includes the development of processes or the improvement of technologies that, in addition to casting and thermomechanical processing, include conventional powder technology and additive manufacturing. Special attention will be paid to the control of the microstructure and its relationship with the properties, in particular studies of fatigue properties, oxidation, corrosion resistance, and wear behaviour.

Guest Editors

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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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