Special Issue

Additively Manufactured of Metals and Alloys for Biomedical Applications

Message from the Guest Editor

Over the past decades, there has been a considerable increase in the number of researches related to biomaterials development and its manufacturing processes. Regarding biomedical metal alloys, special attention has been paid to the development of materials free of cytotoxic elements, such as Al, V, Cr, Co, and Ni, and still present adequate mechanical properties to mimic the biomechanical tissue behavior, with good interaction with the host tissue. On the other hand, research in manufacturing processes aimed to provide techniques that would allow the surface functionalization and also increase the freedom of geometric shapes. In this sense, additive manufacturing techniques have brought numerous advantages to the field of biomedical applications. The purpose of this Special Issue is to collect manuscripts related to various aspects of research on additive manufacturing of metallic biomaterials. Original manuscripts will be welcomed on research related to processing, post-processing, characterization, and applications of biomedical metals and alloys.

Guest Editor

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Deadline for manuscript submissions

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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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