Special Issue

Metallic Scaffolds for Medical Applications

Message from the Guest Editor

There is a high demand for biomaterials to assist the replacement of organs and their functions. For this reason, researchers search for new biomaterials with advanced mechanical and biological properties and develop new technologies for the enhancement of those properties. This Special Issue aims to present the latest research related to metallic scaffolds for medical applications. As a result, the most recent studies and research reports on metallic foams for hard tissue replacement, with a focus on: i) the development a new generation of metallic-based foams with a strictly specified chemical and phase compositions, porosity and surface morphology and such, which will adhere well to the substrate, show high hardness and high resistance to biological corrosion, and ii) biocompatibility testing of porous metal-based implants in in vitro and in vivo studies, are welcome. Possible upcoming trends in research field should be also mentioned for the optimization of porous metal-based implants.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2018)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/10391

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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