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Surface Modification, Functionalization and Characterization of Metallic Biomaterials

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Message from the Guest Editors

Dear Colleagues,

The use of metallic biomaterials has been widely extended thanks to their mechanical properties and biocompatibility, which achieve a good balance with respect to natural tissues. The determination of the mechanical properties and the surface characteristics is required to optimize the selection of the metals and metallic alloys and the fabrication techniques for the final application.

However, metallic biomaterials can present poor biofunctional behavior, which can be overcome by the modification, functionalization and/or coating of the surface, to make it more attractive for cell adhesion and proliferation while minimizing bacteria-related infections.

This Special Issue collects works related to metallic biomaterials, from fabrication to surface modification to enhance the bifunctionality (in any of its aspects) and achieve a good balance.

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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.

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