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Nanostructured Surfaces in Metallic Biomaterials

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Message from the Guest Editor

Dear Colleagues,

Over the past few years, nanomaterials have become very popular in medical applications. The enhancement of bone formation, at the bone–implant interface, has been achieved through the modulation of osteoblast adhesion and spreading, induced by modifications at the nanoscale level of implant surfaces.

Titanium and titanium alloys are preferred materials in the production of implants. Currently, titanium and its alloys are used for dentistry devices, such as implants, crowns, bridges, overdentures, and dental implant prosthesis components (screw and abutment).

This Special Issue aims to present the latest research related to nanostructured surfaces in metallic biomaterials. Research reports associated with the manufacture techniques and the related cells-surface interactions and modulation, as well as modifications of implant surfaces at the nanometric level are also welcome.

Prof. Dr. Mieczyslaw Jurczyk
Guest Editor

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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 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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