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Ti-Based Biomaterials: Synthesis, Properties and Applications

Guest Editor:

Message from the Guest Editor

Prof. Dr. Jarosław Jakubowicz Institute of Materials Science and Engineering, Poznan University of Technology, Poznan, Poland

Deadline for manuscript submissions: closed (31 December 2019) The successful application of Ti biomaterials has been confirmed mainly in dentistry, orthopedics and traumatology. Ti biocompatibility is practically the highest of all metallic biomaterials, however new solutions are being sought to improve their biocompatibility and osseointegration. Thus, the chemical modification of Ti results in the formation of new alloys or composites, which provide new perspectives for Ti biomaterial applications.

The surface treatment applied to Ti-based biomaterials is required to provide fast osseointegration. Oxide, nitride, DLC or hydroxyapatite surface layers are the most desired and surface technology has been extensively investigated. Over the last years, great attention has been focused on additive technology (3D printing) applied to Ti biomaterials. The technologies are useful for the formation of bulk, porous as well as gradient biomaterials.

It is my pleasure to invite you to submit a manuscript to this Special Issue that is related to the above topic. Full papers, communications, and reviews are all welcomed.









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Message from the Editor-in-Chief

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