

Special Issue

Preparation and Properties of Metals and Alloys for Biomedical Applications

Message from the Guest Editor

Metal-based biomaterials are the most widely used among other groups of biomaterials. These include titanium and its alloys, cobalt alloys, and austenitic steels. Great interest in this group of materials results from their very good mechanical, physicochemical, and biological properties. There is also a great potential to modify the chemical composition, structure, and properties, as well as the potential to modify the surface of products made of them. Susceptibility to the many processes of surface treatment, such as, for example, anodic oxidation, PVD, CVD, thermal spraying, and so on, makes them as materials with unlimited biomedical possibilities. Particular attention should be paid to their use in orthopaedic, cardiology, and stomatology. This topic is dedicated to new and old type metallic biomaterials made by new and conventional techniques but with new and extraordinary properties.

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.

Guest Editor

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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