Special Issue

Ti Alloys for Dental Implant Applications

Message from the Guest Editor

Titanium and Ti-6Al-4V alloy are widely used for manufacture dental implants due to their good biocompatibility. Novel titanium alloys, especially □-type titanium alloys, are considered the future materials for dental implants. Thus, various manufacturing techniques are used to obtain biocompatible implants with the desirable mechanical properties. To increase bioactivity of titanium alloys, their surfaces are very often modified. Various methods are available for the bioactivation of metal surface: plasma electrolytic oxidation, sol–gel methods, plasma spraying, ion implantation, electrophoretic deposition, and chemical or physical vapor deposition. Functional coatings can be designed for dental implant applications. Bioactive coatings should be composed only by biocompatible compounds and do not form toxic corrosion or degradation products. It is my pleasure to invite you to submit a manuscript for the Special Issue "Ti Alloys for Dental Implant Applications". The broad scope of this Special Issue provides an excellent opportunity to submit full papers, short communications or review papers.

Guest Editor

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Message from the Editor-in-Chief

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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