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Ti Alloys for Dental Implant Applications

Guest Editor:

Dr. Alicja Kazek-Kęsik

Department of Inorganic
Chemistry, Analytical Chemistry
and Electrochemistry, Faculty of
Chemistry, Silesian University of
Technology, B. Krzywoustego
Street 6, 44-100 Gliwice, Poland

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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 β -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.



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Special Issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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