



Titanium in Medical and Dental Applications

Guest Editor:

Prof. Dr. Irina P. Semenova

Institute of Physics of Advanced
Materials, Ufa State Aviation
University, Ufa 450000, Russia

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Message from the Guest Editor

Dear Colleagues,

This Issue presents papers that summarize the advantages provided by titanium and its alloys in medical and dental applications. The following aspects are considered:

- Advanced fabrication techniques; thermomechanical processing, including methods of severe plastic deformation (SPD) to improve mechanical properties;
- The relationship between the microstructure, mechanical, and functional properties of Ti and its alloys;
- The characterization of the physical, chemical, and mechanical properties of titanium and its alloys that are crucial for their medical applications;
- Research and development of surface modification techniques, including bio-functional coatings;
- An examination of the functional and in-vitro biological properties of titanium implants.

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Guest Editor





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Editor-in-Chief

Prof. Dr. Yong Zhang

Beijing Advanced Innovation
Center of Materials Genome
Engineering, State Key
Laboratory for Advanced Metals
and Materials, University of
Science and Technology Beijing,
30 Xueyuan Road, Beijing 100083,
China

Message from the Editor-in-Chief

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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Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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