# **Special Issue**

# Titanium in Medical and Dental Applications

## Message from the Guest Editor

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.

#### **Guest Editor**

Prof. Dr. Irina P. Semenova

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

## Deadline for manuscript submissions

closed (20 March 2020)



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## **About the Journal**

## 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.

#### Editor-in-Chief

## Prof. Dr. Yong Zhang

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### **Author Benefits**

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## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

