

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)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/24750

Metals

Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/

[metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)



About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Metals and Alloys)

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).