Special Issue

Metals for Biomedical Applications: From Experiments to Computer Models

Message from the Guest Editor

One of the main aims of modern societies is to extend the life expectancy of their citizens. However, this extension has no meaning if it is not accompanied with an improvement in life quality, independently of the age range. To achieve these objectives, the synergy of medicine and engineering is necessary. One of the fields where this collaboration has proven fruitful has been in the field of materials engineering. Biomaterials are the result of this close collaboration. Progress in the field of metallic biomaterials requires not only experimentation with these materials, but also theoretical studies and the development of computer models. These studies allow us to understand the properties and response of these metals to the biological environment, helping to optimize biomedical design using them. This special issue of Metals contemplates the publication of original research papers in the topic of metals as biomaterials. These investigations can be related with:

- Design
- Processing and manufacturing
- Physical/mechanical behaviour
- Degradation/environment interaction
- Theoretical models
- Mathematical modelling
- Computer simulation
- Experimental research

Guest Editor

Assoc. Prof. Dr. Javier Aldazabal
Tecnun - University of Navarra, Donostia-San Sebastian, Spain

Deadline for manuscript submissions

closed (31 May 2022)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/53387

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

mdpi.com/journal/metals

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

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).

MDPI