Special Issue

Processing of Advanced Alloys for Aerospace, Automotive and Biomedical Applications

Message from the Guest Editors

COVID-19 and its after effects demands the processing domain (casting, foming, joining, additive and subtractive manufacturing, etc.) to be at the centre stage of any research. The usage of advance alloys such as Nitinol, Waspalloy, Udimet, etc. has been rapidly initiated due to their application in different high growth and important sectors such as biomedical, aerospace, etc. These alloys perform exceedingly paramount under challenging conditions and applications, however the main problem lies in the difficulty in their processing due to their exotic nature. This Special Issue encapsulates the experiences of researchers in different processing techniques on conventional and advanced alloys speciafically for the applications such as aerospace, automtovie, biomedical and many more.

Guest Editors

Dr. Jaykumar Vora

Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University (PDEU), Gandhinagar 382421, Gujarat, India

Dr. Rakesh Chaudhari

Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University (PDEU), Gandhinagar 382421, Gujarat, India

Deadline for manuscript submissions

closed (31 December 2023)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/142283

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