Special Issue

Advances and Applications in Cellular Metals

Message from the Guest Editors

It is our pleasure to invite you to submit a manuscript to the forthcoming Special Issue, “Advances and Applications in Cellular Metals”, in Metals (open-access journal, Impact Factor 2.117, https://www.mdpi.com/journal/metals).

This Special Issue aims to highlight the most recent novelties and developments in the field of cellular metals modelling, synthesis, characterization, and applications. Cellular metals are considered as one of the most versatile lightweight multifunctional materials for engineering applications, and to be perfectly aligned with contemporary society’s growing ecological awareness. Furthermore, they withstand high temperatures. Therefore, they are widely used as crash/impact energy absorbers for vehicles (closed-cells) and heat-exchangers (open-cells). Over the last several decades, several cellular metals have been emerging (e.g. composite and nanocomposite foams, 3D printing cellular structures, hollow sphere structures, auxetic foams, hybrid structures).

Guest Editors

Prof. Dr. Isabel Duarte

Department of Mechanical Engineering, University of Aveiro, Campus Universitário de Santiago, 3810–193 Aveiro, Portugal

Prof. Dr. Matej Vesenjak

Faculty of Mechanical Engineering, University of Maribor, Smetanova ul. 17, SI-2000 Maribor, Slovenia

Deadline for manuscript submissions

closed (28 February 2023)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/61037

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