Special Issue

Characterization and Structure of Metallic Foams

Message from the Guest Editors

The scope of this Special Issue on “Characterization and Structure of Metallic Foams” is research on the latest developments in areas of porous materials, mechanical properties, characterization, synthesis, modeling, and advance understanding of metallic foams and/or porous metals in any composition. The papers are welcome to provide:

- advanced understanding of the micro- and macrostructure in correlation with mechanical properties of metallic foams as well as discovery or development and characterization of the structure of improved porous metals with novel functional or mechanical properties of potential engineering interests;
- latest developments in areas of syntheses, built-up mechanisms of closed or open porosity;
- improvements of mechanical properties in understanding of production of metal foam by changing the chemical composition of alloy and foaming agent.
- explain mechanisms of pore cell stability
- modeling of metal foams
- review overlook of latest studies

In this Special Issue, we will aim to publish papers with a focus on manufacturing, characterization, and modeling of metallic foams.

Guest Editors

Dr. Irena Paulin
Institute of Metals and Technology, Lepi Pot 11, 1000 Ljubljana, Slovenia

Dr. Crtomir Donik
Institute of Metals and Technology, Department of Physics and Chemistry of Metallic materials Lepi pot 11, SI-1000 Ljubljana, Slovenia

Deadline for manuscript submissions

closed (30 June 2021)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/33574

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