



Characterization and Structure 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)

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.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **SCIE (Web of Science)**, **Inspec**, **CAPLUS / SciFinder**, and **other databases**.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)