



materials



an Open Access Journal by MDPI

Advanced and High Performance Metallic Foams

Guest Editor:

Dr. Imre Norbert Orbulov

1. Department of Materials
Science and Engineering, Faculty
of Mechanical Engineering,
Budapest University of
Technology and Economics,
Budapest, Hungary
2. MTA-BME Lendület Composite
Metal Foams Research Group,
Hungarian Academy of Sciences,
Budapest, Hungary

Deadline for manuscript
submissions:

closed (15 December 2020)

Message from the Guest Editor

It is my pleasure to invite you to publish your metallic foam-related research works in the Special Issue, 'Advanced and High-Performance Metallic Foams', of *Materials* as a full paper, short communication, or review. This Special Issue covers all types and aspects of metallic foams from design through production and intensive testing, including, but not limited to liquid- and solid-state and 3D additive production methods, blowing agents, foaming, macro-, meso-, and microstructures of foams, structural reverse engineering, modelling of metallic foams, quasi-static, dynamic and cyclic mechanical properties (compressive, tensile, and bending behavior, including blast protection and piercing) at room, elevated, or cryogenic temperature, mechanical damping, failure mechanisms and energy absorption of metallic foams, foam-filled structures and their mechanical stability, biocompatible foams, degradable and recyclable metallic foams, joining technologies (brazing, welding, gluing, etc.), forming of metallic foams, notch and hole sensitivity, applications and case studies.



mdpi.com/si/24038

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)