metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 5.3

Design and Fabrication of Lattice and Architectured Materials via Metal Additive Manufacturing

Guest Editors:

Dr. Yunlong Tang

Dr. Guoying Dong

Dr. Dawei Li

Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

Additive Manufacturing (AM) has revolutionized the fabrication of complex structures by utilizing a layer-by-layer approach, unlocking the potential of lattice and architectured materials with digitally controlled meso- or microscale structures. This Special Issue is dedicated to exploring the latest developments in the design and fabrication of lattice and architectured materials through metal AM. Research areas may include (but are not limited to) the following:

- Design and optimization of AM-fabricated metal lattice and architectured materials;
- Process planning for AM-fabricated metal lattice and architectured materials;
- AI or data-driven design and process planning for metal lattice and architectured materials;
- Process–structure–properties or performance modelling of AM-fabricated metal lattice and architectured materials;
- Bio-inspired design of metal lattice and architectured metal materials;
- Novel additive or hybrid manufacturing processes of metal architectured materials;
- Computational or generative designs of metal lattice and architectured materials;
- Applications of AM-fabricated metal lattice and architectured materials.

metals

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

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 Editor-in-Chief

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, Ei Compendex, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/metals
metals@mdpi.com
𝕏@Metals_MDPI