Special Issue

Advanced Manufacturing of Novel Metallic Related Materials

Message from the Guest Editors

A special highlight is dedicated to research on metallic and ceramic materials obtained by various additive manufacturing techniques, including laser powder-bed fusion, laser metal deposition, binder jetting, wire arc additive manufacturing, electron beam melting, etc. Research papers devoted to the development of feedstock materials as well as alloys and composite materials tailored for additive manufacturing processes will also be addressed. The covered topics include, but are not limited to:

- Additive manufacturing;
- Nanostructured materials (metals, powders, composite ceramics, coatings);
- Advanced processing of metallic materials;
- Biomaterials and new medical materials, 3D printing of biomaterials;
- Modelling of the process, physical and mechanical properties of materials;
- Digital twins of materials, structures, production technologies;
- Materials with special physical and mechanical properties;
- Processing and characterization of smart materials;
- Design of additively manufactured materials.

Guest Editors

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Deadline for manuscript submissions

closed (10 August 2023)

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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

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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).

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