Special Issue

Advances in Additive Manufacturing of Metallic Materials: Characterization, Properties and Applications

Message from the Guest Editors

Additive manufacturing (AM), has advanced significantly in recent years in the field of metallic materials. AM has transformed the field of engineering by offering the freedom to fabricate complex components with minimum waste and high efficiency. The characterization and properties of materials play crucial roles in AM systems and their applications. This Special Issue is dedicated to publishing studies on the intricate relationships among AM process optimization, microstructure characterization, metal properties, and potential applications of AM. It aims to publish original research and high-quality review articles that address recent advancements in metal AM. This Special Issue will encompass a wide range of topics, including, but not limited to, the following: 1 Additive manufacturing of high-performance metallic materials; 2 Recent advances in novel additive manufacturing technologies and metallic materials; 3 Multi-material additive manufacturing technologies; 4 Material–process–property integration in additive manufacturing; 5 Hybrid additive manufacturing technology and its applications.

Guest Editors

Prof. Dr. Bo Song
School of Materials Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

Prof. Dr. Jinliang Zhang
Mechanical Engineering, Wuhan University of Technology, Wuhan 430070, China

Deadline for manuscript submissions

20 December 2026

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/255844

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 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.

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

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 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).

MDPI