Special Issue

Additive Manufactured Metal Structural Materials

Message from the Guest Editor

Additive manufacturing technology is a revolutionary technology that integrates digital manufacturing, intelligent manufacturing, and green manufacturing. It has the advantages of high design flexibility, low material waste, and strong personalized customization, which can significantly shorten the development cycle of products. It has been widely used in multiple fields, including automotive, medicine, aerospace, electronics, etc. Additive manufacturing technology has injected inexhaustible vitality into metal structural materials. Complex additive manufactured metal structural materials can be customized and evaluated, which will promote the rapid development of social economy and key industries. In this Special Issue, we welcome articles that focus on the design, characterization, and evaluation of additive manufactured metal structural materials. Theoretical analysis, experimental tests, and numerical simulations are all welcome. Contributions to this Special Issue are highly valued and appreciated. We invite you to contribute research work and reviews that relate to the benefits of additive manufactured metal structural materials in today's world.

Guest Editor

Dr. Xiaofei Cao

School of Physics and Mechanics, Wuhan University of Technology, Wuhan 430070, China

Deadline for manuscript submissions

31 December 2025

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/233338

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 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

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

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 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).

MDPI