

Special Issue

3D Printing of Metal

Message from the Guest Editor

Metal 3D printing, as an advanced forming, can manufacture parts directly from digital model by using layer by layer material build-up approach. This manufacturing method can prepare complex shape metal parts in short time, with and high precision. 3D printing processes can be classified into two major groups, Powder Bed Fusion based technologies and Directed Energy Deposition. 3D printing features freedom to part complexity, part design and light-weighting for aerospace, automobile and other industries application. The Global Metal 3D Printing Market is mainly driven by the the fast developing of aerospace and automobile industry. The Global Metal 3D Printing Market size was valued at USD 534.18 Million in 2020 and is projected to reach USD 4458.76 Million by 2028, growing at a CAGR of 30.38% from 2021 to 2028. In this Special Issue, we welcome articles that focus on metal 3D printing materials, processes and their influence on the final products' microstructure and performance, providing guidance for the development of metal 3D printing technology.

Guest Editor

Prof. Dr. Zhanyong Zhao

School of Materials Science and Engineering, North University of China, Taiyuan, China

Deadline for manuscript submissions

closed (31 December 2022)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/104629

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
metals](https://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, CAPus / 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).