

Special Issue

Liquid Metal Engineering

Message from the Guest Editor

Liquid metals and alloys are playing an increasingly central role in advancing various applications, such as in metal extraction, material synthesis, energy storage devices, microfluidics, flexible electronics, and drug delivery. Most metals are produced in a liquid state and liquid metals have been a part of human society for a long time. Recently, research on liquid metals has emerged as a largely untouched field that needs to be explored and which could spur on further interdisciplinary research. As such, this Special Issue will focus on the recent research advances in liquid metal engineering, encompassing the fundamentals underlying the study of liquid metal, extraction and preparation of liquid metals, characterization methods, modeling and theoretical calculations, and liquid metal applications. Overall, this Special Issue aims to collect state-of-the-art research papers on liquid metals, thereby attracting more attention from various fields, expanding the real-world applications of liquid metals, and fostering future collaborations.

Guest Editor

Prof. Dr. Huayi Yin
School of Metallurgy, Northeastern University, Shenyang, China

Deadline for manuscript submissions

closed (31 December 2021)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/77440

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).