

Special Issue

Light Alloy and Its Application (2nd Edition)

Message from the Guest Editors

Light alloys, including magnesium-based, aluminum-based, and titanium-based materials, are widely utilized in transportation areas, such as aviation, automotive, and light rail, due to their low density and high strength-to-weight ratio. The weight reduction in transportation translates directly into fuel savings and reduced emissions, thus contributing significantly to ecological and economic sustainability. In addition, light alloys possess unique properties and are attractive for a number of specific applications—for example, the application of titanium alloys human implants is attributed to their excellent biocompatibility; the large hydrogen storage capacity and high theoretical specific capacity for battery applications mean that magnesium alloys have great potential for energy applications. To further promote the development of light alloys, we have launched this Special Issue in *Metals*, where we welcome reviews and articles in the areas of basic research, theoretical calculation, design of novel alloys, material preparation and characterization, and applications of light alloys.

Guest Editors

Prof. Dr. Chonghe Li

State Key Laboratory of Advanced Special Steel & Shanghai Key Laboratory of Advanced Ferrometallurgy & School of Materials Science and Engineering, Shanghai University, Shanghai 200072, China

Qisheng Feng

State Key Laboratory of Advanced Special Steel & Shanghai Key Laboratory of Advanced Ferrometallurgy & School of Materials Science and Engineering, Shanghai University, Shanghai 200072, China

Deadline for manuscript submissions

10 August 2025



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/148266

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 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).