# Special Issue

# Processing, Microstructure, and Properties of Nonferrous Metals and Alloys

# Message from the Guest Editors

Nonferrous metals and alloys are groups of highperformance materials with outstanding physical and mechanical properties; they are widely used in the aerospace, automotive, marine, chemical and biomedical industrial sectors. The microstructure and properties of nonferrous alloys are mainly governed by their fabrication and thermomechanical processing routes. Therefore, an in-depth understanding of the relationship between the processing, microstructure and properties of nonferrous alloys is necessary to optimize their performance and ensure confidence in engineering applications. In this Special Issue, we accept papers covering both experimental and simulation work on the processing, microstructure and properties of nonferrous alloys, including, but not limited to, Ti alloys, Al alloys, Mg alloys, Ni alloys, Zr alloys, Hf alloys, Cu alloys, etc. We aim to collect a wide range of articles on the relationship between the characteristics of these alloys. Research papers, reviews, and short communications are welcome.

#### **Guest Editors**

Prof. Dr. Hao Wang

Dr. Aihan Feng

Dr. Zhenbo Zhang

#### Deadline for manuscript submissions

closed (31 October 2025)



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# **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

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## **Journal Rank:**

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

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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).

