# **Special Issue**

# Structural and Functional Performances of Multi-Component Alloys

# Message from the Guest Editors

Multi-component alloys, which often contain multiple phases and elements, offer a wealth of opportunities for tailoring their mechanical, electrical, magnetic, catalytic, and other functional properties to meet the specific requirements of various applications. Methods for the preparation of multi-component alloys vary widely, including casting, rolling, extrusion, and powder metallurgy. The selection of preparation methods depends on the desired microstructure and properties of the alloys. Heat treatment and surface treatment are also crucial processes that can significantly affect their mechanical and functional properties. This Special Issue focuses on the latest research and developments in the field of multi-component alloys. We welcome articles on theories, techniques, devices, and simulation methods for the preparation, processing, forming, and failure of multi-component materials. We believe that this issue will serve as a valuable reference for researchers and practitioners interested in preparing, processing, forming, and applying multi-component alloys. We hope that it will stimulate further research and developments in this rapidly advancing field.

#### **Guest Editors**

Dr. Mao Zhang

Dr Zhen Peng

Prof. Dr. Pan Gong

## Deadline for manuscript submissions

closed (23 August 2024)



# **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/183421

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



# **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, 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).

