# **Special Issue**

# Welding and Joining of Dissimilar Materials

## Message from the Guest Editors

The increasing demand for multimaterial hybrid structures as high-performance and multi-functional components in diverse areas, including automobiles, aerospace, civil engineering, etc., has greatly stimulated the enthusiasm of researchers in welding and joining dissimilar materials. With the rapid development of science and technology, novel welding and joining technologies for obtaining sound dissimilar materials joints, including metallic/metallic and metallic/nonmetallic materials joints, have been proposed. Nevertheless, the successful development of highquality welding and joining techniques cannot be realized without an in-depth understanding of the bonding mechanisms, especially at the welded/joined zone. This Special issue aims to provide an excellent opportunity for those who are studying and working on advanced welding or joining of dissimilar materials to present their cutting-edge research progress. Research papers, review articles, and communications relating to the process, theory, simulation of welding or joining processes of dissimilar materials and the related practice of dissimilar materials joint structures are all very welcome.

## **Guest Editors**

Dr. Peihao Geng

Joining and Welding Research Institute, Osaka University 11-1 Mihogaoka, Ibaraki, Osaka 567-0047, Japan

Dr. Hong Ma

School of Materials Science and Engineering, Shandong University, Jinan 250061, China

## Deadline for manuscript submissions

closed (31 January 2023)



## **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/109381

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).

