# **Special Issue**

# Mechanical Properties of Metals Welding Joints

## Message from the Guest Editors

Carbon neutral and peak carbon dioxide emissions are effective ways to solve the world's increasingly complex climate and energy problems. New materials, such as high-entropy alloys, new processing technologies, such as 3D printing, and online detection as well as monitoring technologies of new materials, such as online monitoring of corrosion defects of key engineering structures, are important paths to promote sustainable development. In this Special Issue, we will focus on basic theoretical research, simulation research, and experimental research of new materials, new processing technology, and application scenarios of materials. Important theoretical results and typical applications of important detection and monitoring technology of material service behavior should be given more attention.

#### **Guest Editors**

Prof. Dr. Guoqing Gou

Dr. Qing Zhang

Dr. Gongwen Gan

## Deadline for manuscript submissions

closed (30 November 2022)



## **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/109780

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 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).