Special Issue

Editorial Board Members' Collection Series: "Welding and Joining"

Message from the Guest Editors

Dear Colleagues This Special Issue, "Editorial Board Members' Collection Series: Welding and Joining", aims to gather cutting-edge research and innovative developments in the field of welding and joining technologies. This collection includes diverse studies conducted by leading experts, providing an overview of the latest techniques and applications in the field. Topics covered include advanced welding techniques such as friction stir welding, explosion welding, and clinching, as well as bonding with structural adhesives. This Special Issue also addresses critical issues such as fracture mechanisms, mechanical resistance in aggressive environments, and methodologies for defect detection and prevention. Particular attention is paid to process optimization and material characterization, focusing on the assessment of mechanical properties and the long-term reliability of joints. Another highly relevant topic is numerical modeling using finite element analysis software, which enables the accurate simulation of welding and joining processes, predicting the structural behavior and performance of joints under various operating conditions.

Guest Editors

Dr. Guido Di Bella
Department of Engineering, University of Messina, Contrada di Dio 1, 98166 Messina, Italy

Prof. Dr. António Bastos Pereira
Centre for Mechanical Technology and Automation, University of Aveiro, Campus Santiago, 3810-193 Aveiro, Portugal

Deadline for manuscript submissions

closed (30 June 2025)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/209752

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

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).

MDPI