

Special Issue

New Technology of Welding/Joining of Metallic Materials

Message from the Guest Editors

The constant technical progress of construction led to the development of new construction materials. The use of traditional joining technologies does not always provide tangible benefits. Hence, numerous studies have been conducted to develop innovative solutions and improve the effectiveness of traditional joining methods that can be applied to join new materials. Welding is a fairly old and still commonly used joining technology in the construction, automotive, and aviation industries, among many other branches of industry. There are many other joining technologies for which permanent or separable joints can be obtained, such as: gluing, riveting, pressing, screwing, plastically forming, etc. For each of the joining processes, the structure and microstructure of the joined materials before and/or during joining alters. These changes may result from plastic deformation, heat treatment, etc. For this Special Issue of *Metals*, we invite you to submit scientific manuscripts that will enable other scientists to gain new theoretical and practical knowledge in the field of joining technology using welding and other joining technologies for metallic materials.

Guest Editors

Prof. Dr. Jacek Mucha

Department of Mechanical Engineering, Faculty of Mechanical Engineering and Aeronautics, Rzeszów University of Technology, 35-959 Rzeszów, Poland

Dr. Waldemar Witkowski

Faculty of Mechanical Engineering and Aeronautics, Rzeszów University of Technology, 35-959 Rzeszów, Poland

Deadline for manuscript submissions

closed (30 September 2024)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/120683

Metals

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

metals@mdpi.com

mdpi.com/journal/

[metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
metals](https://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).