Special Issue

Advances in Welding and Mechanical Joining of Metals

Message from the Guest Editor

The latest advancements in welding and mechanical joining have enhanced the performance and integrity of assembled components and joining together dissimilar materials that cannot be addressed with conventional methods. This Special Issue aims at collecting contributions about recent advances in welding and mechanical joining. Contributions can include but are not limited to: - New welding and mechanical joining technologies;
- Solid-state welding processes;
- Fusion welding processes;
- Mechanical joining;
- Hybrid welding and mechanical joining processes;
- Process optimization of advanced welding and mechanical joining processes;
- Monitoring and control of advanced welding and mechanical joining processes;
- Numerical simulation of advanced welding and mechanical joining processes;
- Development of innovative tools and equipment;
- Mechanical and microstructural characterizations of the assembled parts and joints.

Guest Editor

Dr. Pasquale Russo Spena
Department of Management and Production Engineering, Politecnico di Torino, 10129 Torino, Italy

Deadline for manuscript submissions

closed (20 June 2024)

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

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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

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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).

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