Special Issue

Advanced Joining Technology of Metal–Polymer Hybrids

Message from the Guest Editors

This Special Issue aims to shed light on cutting-edge advancements in the realm of joining metal components with polymers or composites. The fusion of metals and polymers has garnered considerable attention across industries due to the unique advantages it offers, such as lightweight structures, enhanced mechanical properties, and superior corrosion resistance. This Special Issue will serve as a platform to explore novel techniques, delve into research history, and discuss evolving challenges in this ever-expanding field. The integration of metal and polymer materials dates back to early attempts at enhancing structural performance and diversifying material properties. Over the years, researchers have pioneered numerous joining techniques, from traditional methods like adhesive bonding, mechanical fastening, and welding to modern innovations such as laser-assisted joining, friction stir welding, and 3D printing. These developments have enabled the creation of hybrid structures that find applications in automotive, aerospace, healthcare, and other areas.

Guest Editors

Dr. Francesco Lambiase

Department of Industrial Engineering, University of L'Aquila, 67100 L'Aquila, Italy

Dr. Lucian Blaga

Department Solid State Materials Processing, Institute for Materials Mechanics, Helmholtz Zentrum Hereon, 21502 Geesthacht, Germany

Deadline for manuscript submissions

closed (20 June 2024)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/188708

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