

Special Issue

Editorial Board Members' Collection Series: Improving Structural Integrity of Metals: From Bulk to Surface—2nd Edition

Message from the Guest Editors

Metals and alloys continue to play a paramount role in the design and construction of load-bearing structures and mechanical components. Ferrous and non-ferrous alloys find countless applications in various industrial areas, including automotive, aerospace, marine, construction, and manufacturing fields. When it comes to guarantee the structural integrity and safety of critical parts, a variety of protection and strengthening mechanisms—not only at the bulk level, but also at the surface level—may be exploited, not to mention the role of the manufacturing process in establishing the material microstructure and, in turn, its strength. Topics that can be covered are rather broad and may include, but are not limited to, the modification of alloy elements and the formation of new alloys such as high-entropy alloys; heat treatments; advanced manufacturing techniques such as additive manufacturing; and surface engineering techniques such as shot-peening, diffusion treatments, and coatings.

Guest Editors

Dr. Francesca Borgioli

Prof. Dr. Denis Benasciutti

Prof. Dr. Umberto Prisco

Prof. Dr. Tomasz Tański

Deadline for manuscript submissions

closed (31 December 2024)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/205482

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).