

Special Issue

Recent Advances in the Recycling and Reuse of Metallurgical Wastes and By-Products

Message from the Guest Editors

The implementation of the circular economy and industrial symbiosis practices and solutions is an absolute priority for all processing industries, including the metallurgical sector. The metallurgical sector is already familiar with circularity concepts, with the recycling and reuse of most metals, alloys, and by-products already honed to a consolidated practice for many significant companies, such as steelworks and aluminum producers. However, large volumes of by-products and wastes are produced by this sector, and new or improved solutions show large potential benefits and are thus under continuous investigation. In this Special Issue, we welcome articles that focus on new technologies, processes, and solutions supporting or favoring the recycling, reuse, and valorization of metallurgical by-products and wastes. Contributions are expected to cover topics related to technologies and practices related to the recycling and reuse and/or at least one of the three main dimensions of sustainable development, taking into account the barriers and related solutions for the management and valorization of residues derived from metallurgical processes.

Guest Editors

Dr. Valentina Colla

TeCIP Institute, Scuola Superiore Sant'Anna, 56124 Pisa, Italy

Dr. Ismael Matino

TeCIP Institute, Scuola Superiore Sant'Anna, 56124 Pisa, Italy

Deadline for manuscript submissions

25 July 2025



Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



mdpi.com/si/199241

Metals

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 2.6
CiteScore 4.9



[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, CAPIus / 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 17.8 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2024).