Special Issue

Metal Recovery from Secondary Resources

Message from the Guest Editors

Primary mining is inherently unsustainable and poses significant environmental risks. In the context of the huge imbalance between the increasing demand for metals and their decreasing supply from finite natural metal resources, metal recovery via sustainable and inexpensive routes from secondary resources is a significant way to reduce mining activities and their environmental impacts. Examples include mine tailing, metallurgy slags, spent catalysts, electronic wastes, and various other industrial side streams. The metals can be precious metals including gold, silver, and platinum, industrial and base metals such as copper, aluminum, steel, and zinc, rare earth metals, or other important metals. This Special Issue is focused on the advanced methods for metal recovery from secondary resources. such as physical method, pyrometallurgy, hydrometallurgy, electrochemistry, and biohydrometallurgy techniques. Reviews and original articles in the areas of pretreatment, metal enrichment, metal purification, process optimization, industrial applications, as well as life cycle assessment, are welcomed.

Guest Editors

Dr. Zhe Wang

State Key Laboratory of Advanced Metallurgy, University of Science and Technology Beijing, Beijing 100083, China

Dr. Jingxiu Wang

The State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, Beijing 100083, China

Deadline for manuscript submissions

closed (31 January 2023)



Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/117297

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



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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).

