Special Issue

Advances in Metal Extraction and Recycling

Message from the Guest Editors

The increasing global demand for metals together with the constant scarcity of ore resources necessitates the development of new technologies that are more efficient in mineral processing, water reuse, and materials recycling. In addition, recent scientific advances are based on the circular economy principles and zero-waste processes; thus, it is necessary to minimize pollution and maximize recycling and reuse of resources.

In recent years, promising technologies for metal extraction and recycling have been developed, such as membrane filtration techniques, ion-exchange resins, ionic liquids, and electrodialysis.

In this Special Issue, we welcome articles that focus on recent advances in metal extraction and recycling. The topics of interest include (but are not limited) to concentration, hydrometallurgy, pyrometallurgy, and electrometallurgy to processing ores, slags, dusts, tails, reuse of wastewater, and metal scraps.

Guest Editors

Dr. Jonathan Castillo
Departamento de Ingeniería en Metalurgia, Universidad de Atacama, Copiapó 1531772, Chile

Dr. Rossana Sepúlveda
Departamento de Ingeniería en Metalurgia, Universidad de Atacama, Copiapó 1531772, Chile

Deadline for manuscript submissions

closed (30 November 2022)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/103039

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