Special Issue

Separation and Purification of Critical Metals

Message from the Guest Editor

Critical metals refer to rare metals, rare earth metals, and some other metals that are necessary in today's society. They play a kind of irreplaceable role in emerging industries such as new materials, new energy, and information technology. Aiming at the scarce critical mineral resources in the world, the theme of "Separation and Purification of Critical Metals" is reporting the relevant theoretical breakthroughs and technological innovations in enrichment, separation, and purification technology of low-abundance metal elements, which can provide a scientific and technological foundation for the comprehensive utilization of resources. The enrichment, separation, and purification technology of critical metals includes the new flotation reagent, new beneficiation process, new smelting process, and beneficiation and smelting combined technology.

Guest Editor

Dr. Yanfang Huang

Department of Metallurgical Engineering, Zhengzhou University, Zhengzhou, 450001, China

Deadline for manuscript submissions

closed (31 August 2024)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/187720

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