Special Issue

Green Low-Carbon Technology for Metalliferous Minerals

Message from the Guest Editor

Metalliferous minerals play a central role in the global economy. Significant challenges will likely emerge if the climate-driven green and low-carbon development transition of metalliferous minerals exploitation is not managed responsibly and sustainably. Prof. Guo of BGRIMM was the first to propose a new development concept for green low-carbon mining, which is vital to promote the development of metalliferous mineral resources shifting from extensive destructive mining to clean and energy-saving mining in future decades. This Special Issue intends to collect the latest developments in the green low-carbon mining field, written by wellknown researchers who have contributed to the innovation of new technologies, process optimization methods, or energy-saving techniques in metalliferous minerals development. Topics addressed may include but are not limited to: Green low-carbon technologies. system and optimization method; Fronters in mining with backfill; Mine waste and heat management; Geomechanical behavior of mine backfill; Energy-saving techniques in mining; Alternative by product materials for green mining; Green low-carbon development criteria of mining.

Guest Editor

Prof. Dr. Lijie Guo

- 1. Department of Mining Engineering, Beijing General Research Institute of Mining and Metallurgy (BGRIMM), Beijing 100160, China
- 2. National Centre for International Research on Green Metal Mining (CIRGM), Beijing 102628, China

Deadline for manuscript submissions

closed (31 August 2022)



Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/92870

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34

mdpi.com/journal/ metals

metals@mdpi.com





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).

