

Special Issue

Comprehensive Utilization of Metallurgical Resources and Environmental Protection (2nd Edition)

Message from the Guest Editor

Resource, energy, and environmental issues are challenges faced by all humanity. Consequently, there is a growing worldwide consensus regarding sustainable development. The production processes of the metallurgical industry will consume a large amount of energy and resources, generate a large number of by-products or wastes (slag, dust, sludge, flue gas, wastewater, etc.), and discharge large quantities of CO₂ and environmental pollutants (SO_x, NO_x, dioxins, heavy metal elements, etc.). It is critical for the long-term development of the metallurgical industry to make efficient and comprehensive use of valuable components in by-products while reducing pollutant emissions. This Special Issue focuses on the safe disposal and utilization of metallurgical industry by-products, as well as the treatment and reduction of pollutant emissions and energy conservation. We encourage the submission of articles that focus on advanced ideas, theories, and technical methods in the aforementioned fields, with the goal of contributing to energy conservation and emission reduction in the metallurgical industry.

Guest Editor

Prof. Dr. Guojun Ma

School of Materials and Metallurgy, Wuhan University of Science and Technology, Wuhan, China

Deadline for manuscript submissions

closed (31 January 2025)



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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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

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