

Special Issue

Recovery and Utilization of Metallurgical Solid Wastes

Message from the Guest Editor

The soaring demand for metals keeps boosting their production, simultaneously resulting in the discharge of massive amounts of metallurgical solid waste, e.g., slag, sludge, and dust. For the continuous growth of the metallurgical industry, it is vital to recover and utilize these wastes in view of the potential economic and environmental benefits. However, there are significant differences in the contents and occurrence forms of valuable elements in various types of waste. It is crucial to continuously innovate treatment processes for metallurgical solid wastes.

This Special Issue intends to bring together cutting-edge research in the field of the recovery and utilization of metallurgical solid wastes for realizing sustainable development of the metallurgical industry towards a greener, more resource-efficient, and climate-resilient economy. It particularly welcomes contributions detailing significant advances regarding innovative theories, methods, and technologies for the treatment of metallurgical solid wastes that possess the features of low-carbon footprint, little or no environmental hazards, and long-term economic viability.

Guest Editor

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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.

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