Special Issue

Comprehensive Utilization of Metallurgical Resources and Environmental Protection

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 (SOx, NOx, 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

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Deadline for manuscript submissions

closed (10 June 2024)

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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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