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Comprehensive Utilization of Metallurgical Slag Resources

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Message from the Guest Editors

As an important basic industry, the metallurgical industry provides important raw materials for social and economic development; however, the existing metallurgical production process inevitably produces a large quantity of metallurgical slag, and the utilization rate of the slag is still generally low. In the face of the increasing scarcity of resources, the use of these misplaced solid waste resources on a large scale with a high added value is a common concern in the industry. It is necessary to focus on the comprehensive utilization of various types of metallurgical slags and compile an issue on the latest progress of the resource utilization of metallurgical slags, which will significantly contribute to and improve the public understanding of the output and utilization of metallurgical slags and promote the technological progress of the industry.

This Special Issue focuses on the utilization of various types of metallurgical slags, including, but not limited to, slag, dust, and sludge from the steel smelting process; solid waste from the nonferrous smelting process, such as red mud, copper slag, nickel slag, lead, and zinc slag; and aluminum ash.

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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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