Special Issue

Pyrometallurgy and Waste Recycling: Experiment and Simulation

Message from the Guest Editor

With growing environmental concerns, scientists are now focusing their research efforts on the increasingly important problems of waste processing and the development of practical methods for its utilization. The creation of new, advanced materials using cutting-edge technologies necessitates the development of novel and significantly more complex recycling methods compared to those used for natural resources, presenting a substantial challenge for researchers in the field. The economic value of waste as a source of raw materials is a concept that has already achieved widespread recognition within both the manufacturing sector and the scientific community, signifying a significant shift in perspective towards resource management. The purpose of this Special Issue is to provide a detailed account of the methods that can be used for streamlined the processing and subsequent industrial and agricultural utilization of this waste, thus promoting resource recovery. This Special Issue presents scholarly insights into the latest technological advancements.

Guest Editor

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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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