Special Issue

Comprehensive Recycling of Metallurgical Solid Waste and Mineral Resources

Message from the Guest Editor

Metallurgy is the basic industry of modern industrial development, providing basic raw materials for the development of most industries. With the rapid development of industry and the sharp increase in resource exploitation around the world, a lot of smelting solid waste is generated. The accumulation of smelting solid waste not only occupies a large area of land but also causes dust and heavy metals to seep into the ground, polluting the environment. Therefore, it is particularly important for the sustainable development of modern industry to carry out research on resource exploitation, smelting and the harmless recycling of solid waste. For this Special Issue, we welcome articles that focus on the exploitation of resources, smelting, and recycling of solid waste. Research on new processes, new theories and new products that can realize the recycling of and reduction in metallurgical solid waste are of particular interest.

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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