Special Issue

Non-ferrous Metal Recycling

Message from the Guest Editor

At present, high-grade, easy-to-mine, and easy-to-handle mineral resources tend to deplete. Unfortunately, the mining of non-ferrous metal mineral resources is becoming complicated, and its low grade leads to complex processing, increasing mining and smelting costs, and thereby decreasing economic benefits. The efficient use of secondary resources will, therefore, become the main part of the output of non-ferrous metals in the near future. With the development of the digital age, the iteration of electronic and electrical products is accelerating, resulting in a large amount of electronic waste, rich in valuable metals, such as copper, aluminum, zinc, nickel, cobalt and lead. The recycling of secondary resources, such as scrap metal and electronic waste, is conducive to environmental protection, and can realize resources' recycling. The aim of this Special Issue is to highlight the new processes, technologies, equipment, and theories for the efficient recovery of secondary non-ferrous metal resources to promote the development of the circular economy and maintain the ecological balance of metal resources.

Guest Editor

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Message from the Editor-in-Chief

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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