

Special Issue

Recent Advances in the Recycling and Reuse of Metallurgical Wastes and By-Products

Message from the Guest Editors

The implementation of the circular economy and industrial symbiosis practices and solutions is an absolute priority for all processing industries, including the metallurgical sector. The metallurgical sector is already familiar with circularity concepts, with the recycling and reuse of most metals, alloys, and by-products already honed to a consolidated practice for many significant companies, such as steelworks and aluminum producers. However, large volumes of by-products and wastes are produced by this sector, and new or improved solutions show large potential benefits and are thus under continuous investigation. In this Special Issue, we welcome articles that focus on new technologies, processes, and solutions supporting or favoring the recycling, reuse, and valorization of metallurgical by-products and wastes. Contributions are expected to cover topics related to technologies and practices related to the recycling and reuse and/or at least one of the three main dimensions of sustainable development, taking into account the barriers and related solutions for the management and valorization of residues derived from metallurgical processes.

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About the Journal

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.

Editor-in-Chief

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