

Special Issue

Advances in Metal Extraction and Recycling

Message from the Guest Editors

The increasing global demand for metals together with the constant scarcity of ore resources necessitates the development of new technologies that are more efficient in mineral processing, water reuse, and materials recycling. In addition, recent scientific advances are based on the circular economy principles and zero-waste processes; thus, it is necessary to minimize pollution and maximize recycling and reuse of resources.

In recent years, promising technologies for metal extraction and recycling have been developed, such as membrane filtration techniques, ion-exchange resins, ionic liquids, and electro dialysis.

In this Special Issue, we welcome articles that focus on recent advances in metal extraction and recycling. The topics of interest include (but are not limited) to concentration, hydrometallurgy, pyrometallurgy, and electrometallurgy to processing ores, slags, dusts, tails, reuse of wastewater, and metal scraps.

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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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