Special Issue

Current Trends in Non-Ferrous Metals Extraction, Separation, and Refining

Message from the Guest Editors

This Special Issue is dedicated to addressing the latest advancements and trends in the extraction, separation, recovery, and refining of non-ferrous metals, with a strong emphasis on environmental sustainability and economic feasibility. Special attention will be given to critical, strategic, and precious metals, such as rare earth elements, lithium, cobalt, and platinum group metals. Their production has a substantial environmental impact, underscoring the need for innovative approaches to reduce energy consumption, lower costs, and minimize waste. This Special Issue seeks contributions that address these pressing challenges, from novel extraction techniques to advancements in separation and refining technologies, all the way to recycling strategies that reduce the reliance on primary resources. By fostering a discussion on the future of non-ferrous metals production, this issue aims to support the transition towards a more sustainable and resilient metallurgical industry, contributing to both environmental protection and economic growth.

Guest Editors

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Message from the Editorial Board

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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