



Selective Separation and Comprehensive Recovery of Valuable Metals

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Message from the Guest Editors

The role of metals in human life is, undoubtedly, very significant. In recent years, recovery of metals has become increasingly important due to the potential supply risk of strategic raw materials and environmental concerns. Increasing global demand for metals has increased their extraction from natural minerals. This results in significant reductions in the grade and quality of the ores in the exploitable mineral deposits. Huge amounts of waste are produced through mining and metallurgical activities. Selective separation could help alleviate critical metal shortages. Potential challenges to future metal extraction technologies include accelerating climate change, rising energy prices, and a lack of clean water. The need to use resources efficiently and comprehensively while protecting the environment necessitates the research and development of the latest technologies for the recovery and recycling of metals. The aim of this Special Issue is to focus on the latest ideas and new methods, processes, and information in the production of precious metals from a variety of sources. Papers that discuss the above-mentioned challenges are invited for this Special Issue.





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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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