# **Special Issue**

# Advanced Technologies for Extractive Metallurgy

## Message from the Guest Editor

The studies of extraction of metals from diverse materials, ranging from primary ores to end-of-life products, are essential to ensure the progress of human community. However, to date, problems such as depletion of mineral resources, poor energy efficiency. huge capital cost, and massive discharge of wastes. have not been sufficiently addressed in the development of metal extraction technologies which depends on advanced design and optimized techniques from combined theoretical, experimental, and practical perspectives. This Special Issue aims to provide a platform for scientists and engineers to present their latest achievements in the extraction of metals. Topics include, but are not limited to, process foundations of new technologies based on hydrometallurgy. pyrometallurgy, electrometallurgy, and their combinations. We are particularly interested in the research concerning mechanisms of metal extraction integrated with thermodynamic modeling or aided by first-principles calculations. We also welcome articles reporting the efforts directed toward practical metallurgical processes, including economic and life cycle analyses.

### **Guest Editor**

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#### Deadline for manuscript submissions

closed (31 January 2022)



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## **About the Journal**

## 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.

### **Editors-in-Chief**

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### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).