

## Special Issue

# Hydrometallurgical Processes for the Recovery of Critical Metals

### Message from the Guest Editors

In this century, the materials we manufacture incorporate nearly all the elements from the periodic table—we are living in the Age of the Periodic Table. Consequently, to develop wind energy and solar photovoltaics and shift towards electric mobility, we must consume significant quantities of metals. However, the question is, will we have enough resources? The answer is likely no. Therefore, it seems reasonable to obtain some of the necessary raw materials and metals through reusing and recycling materials at the end of their life cycle. This Special Issue aims to consolidate advances across various fields, particularly in metallurgy and hydrometallurgy, for the recovery of critical metals from ores, mining waste, or post-consumer products. We invite you to contribute to this Special Issue. Both Prof. Dr. Alguacil and I look forward to learning about the progress being made in your laboratories and companies.

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 February 2026)



## Metals

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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.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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