# **Special Issue**

# Advanced Technologies in Bio/Hydrometallurgy for Recovery and Recycling of Metals

# Message from the Guest Editor

Bio/hydrometallurgical processes are new solutions and represent environmentally sustainable practices, not only in the mining and in the environmental sectors for the extraction of rare earth elements (REE), base, precious and toxic metals, but also for secondary resource valorization with a high content of critical raw materials (CRMs), fundamental in modern technological applications. Bio/hydrometallurgy consists of leaching and recovery unit operations. Leaching is the solubilization of metals from a solid phase using chemicals or biological agents, whereas recovery is the extraction of metals from polymetallic leachate using physicochemical processes, electrowinning or biological processes. For publication in this Special Issue, those articles that contribute to the improvement of innovative bio- and/or hydrometallurgical processes applied for the recovery and recycling of valuable and critical metals will be considered. I hope you accept this invitation, and help us to create a high-impact and highquality Special Issue on "Advanced Technologies in Bio/Hydrometallurgy for Recovery and Recycling of Metals".

#### **Guest Editor**

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## Deadline for manuscript submissions

closed (30 April 2023)



# 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.

#### Editor-in-Chief

## Prof. Dr. Yong Zhang

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

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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).

