Special Issue

Flotation and Leaching Processes in Metallurgy

Message from the Guest Editor

Flotation and leaching processes are the most used for metal extraction in the mining industry. The constant depletion of high-grade minerals on the Earth's surface has significant consequences, and the industry is forced to:

- Increase production levels to compensate for the drop in grades;
- Diversify the extraction of other elements and obtain byproducts from the main element to be exploited;
- Reduce costs in essential resources such as water and electricity.

It is necessary to develop technological innovations to increase/optimize the recovery of metals of interest through conventional processes; reuse industrial waste to lower production costs. The purpose of this Special Issue is to compile works related to the development of novel processes to recover metals through leaching and flotation processes and optimize the use of water through solid–liquid separation stages for its subsequent reuse in extractive metallurgy processes. Research areas may include (but are not limited to) leaching (in general), froth flotation (in general), thickening (in extractive metallurgy processes), ionic liquids, new water sources, and industrial waste reuse.

Guest Editor

Dr. Norman Toro

Faculty of Engineering and Architecture, Universidad Arturo Prat, Iquique 1100000, Chile

Deadline for manuscript submissions

closed (31 March 2022)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/85221

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/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
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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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).

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