# **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)



an Open Access Journal by MDPI

Impact Factor 2.6 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





# Metals

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 5.3



metals



# 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

#### Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

#### 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

### Author Benefits

#### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

#### 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 17.8 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2024).