# **Special Issue**

# Advances in the Solvent Extraction of Metals

## Message from the Guest Editor

The extraction of metals from their ores is at the base of every civilization. Solvent extraction is an industrially relevant technique well-suited for the separation and purification of metals, on the laboratory bench as well as at large scale. With this technique, an aqueous solution containing a metal ion of interest is contacted with an organic solution containing a metal-selective extractant. Although it has been investigated for long time, solventextraction systems exhibit unique physicochemical properties which are particularly challenging to elucidate due to the presence of the aqueous/organic interface. This Special Issue of *Metals* aims to present and discuss the latest advances in all aspects of the solvent extraction of metals. Reviews, articles, and short communications that focus on either fundamental or applied research are equally welcomed. A nonexhaustive list of topics of interest includes approaches to solvent-extraction intensification (energy, water, and chemicals reduction and improved extraction efficiency), interfacial and extractant chemistry, equilibrium and kinetic modelling, analytical techniques, and unit operations.

## **Guest Editor**

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#### Deadline for manuscript submissions

closed (31 December 2020)



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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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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).

