# **Special Issue**

# **Inclusion Metallurgy**

## Message from the Guest Editors

The primary focus of this Special Issue is on recent advances in inclusion engineering that aim at controlling steel cleanliness and microstructure by modeling and experimental work. The particularly interesting research theme of the formation mechanism and evolution control methods of inclusions in the smelting process in laboratory and steel plants is welcomed. The study of the agglomeration and floatation of inclusions and the kinetics of slag adsorption in the process of refining and solidification are also potential themes of contribution. Topics addressed in this Special Issue may include, but are not limited to, the following aspects:

- Formation/evaluation of inclusions during steel smelting/refining/solidification;
- Multiphase reaction of steel-slag-inclusion-refractory;
- Thermodynamics and kinetics prediction;
- Fundamentals on wettability, contact angle, and surface tension, as well as the related basic database;
- Inclusion metallurgy in clean steel.

### **Guest Editors**

Prof. Dr. Yanling Zhang

Prof. Dr. Guoguang Cheng

Zhonghua Zhan

#### Deadline for manuscript submissions

closed (31 January 2023)



## **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/96911

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 2.5 CiteScore 5.3



## **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

#### **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 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).

