Special Issue

Smelting and Refining Processes for the Primary and Secondary Production of Metals

Message from the Guest Editors

Base metals are now key elements of the sustainable development of our society. Electromobility, decarbonization, and the coming green hydrogen availability are some of the conditions that the development of primary and secondary production are taking into consideration. This special issue of *Metals* invites researchers from academia and industry to present original papers addressing primary and secondary smelting and refining, the interface between mining operations and manufacturing industries. We are looking for contributions covering fundamental aspects related to the physical chemistry of smelting, as well as the analysis of processes and reactors. Manuscripts on operational and technological development topics are also of high interest for this Special Issue. We encourage you to publish your latest developments and research to be part of this effort to provide both academia and industry with a comprehensive view of advancements and trends in this relevant subject.

Guest Editors

Prof. Dr. Roberto Parra
Dr. Philip Mackey
Prof. Dr. Igor Wilkomirsky

Deadline for manuscript submissions

closed (30 June 2022)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/96951

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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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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).

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