Special Issue

Physical Metallurgy of Steel

Message from the Guest Editors

Physical metallurgy is the root of the vigorous development of modern materials science. The physical metallurgy of steel is an important part of ironmaking and steelmaking. The main research scope of this Special Issue is the microstructure evolution and properties changes during processing and heat treatment after the solidification of chemical metallurgy products. The main physical metallurgy problem in steel production is the relationship between process, microstructure and properties. The in-depth study of microstructure reveals the mechanisms behind various appearances, and promotes the progress of process technology and the development of advanced materials.

Guest Editors

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Deadline for manuscript submissions

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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

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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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