

Special Issue

Advances in Refining, Solidification, and Casting of Steels and Alloys

Message from the Guest Editors

Refining, solidification, and casting are key links for the preparation of steels and alloys. The relevant technologies have a great impact on the properties and quality of steels and alloys. The research and development of new technology, process optimization, and mechanism exploration in these fields have been attracting the attention of researchers, and new achievements have been proliferating at the same time. This Special Issue aims to promote the rapid publication and communication of research achievements in the refining, solidification, and casting of steels and alloys. We encourage the publication of both research papers and review articles in the areas of process technology, mechanism, modeling, artificial intelligence application, energy saving and emission reduction, comprehensive utilization of resources, testing and characterization technology, outfield application, and simulation.

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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.

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