Special Issue

Secondary Refining

Message from the Guest Editors

Secondary refining is a key process for the preparation of high-quality steels and alloys. The relevant technologies and processes extenvisely impact the properties and quality of steels and alloys. The development of new technologies, methods of process optimization, and alternative mechanisms in the field has been attracting the attentions of researchers, and there has been a proliferation of new achievements as a consequence. This Special Issue aims to promote the fast publication and communication of research achivements in secondary refining. We encourage researchers in relevant areas to submit both research papers and review articles for publication in the areas of process technology, mechanisms, and modeling; artificial intelligence applications, energy saving and emission reduction; the comprehensive utilization of resources; equipment upgrading, basic research and optimization of refining slag; research and application of pure alloy and high-quality refractory applications, testing and characterization technology; new refining technologies such as electromagnetic, electrochemical and bubble flotation; simulation; etc.

Guest Editors

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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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