Special Issue

Development of Clean Steel Production

Message from the Guest Editors

The control of steel cleanness is a systematic and complicated project throughout the whole steel production process. Based on the traditional smelting process of clean steel and the requirements of compact, efficient, energy-saving and low-cost production, improved technology is required to obtain better thermodynamic and kinetic conditions. During steel production, the refining and casting process is very important for steel cleanness, including the removal of inclusions and harmful elements, the control of inclusion types, the refinement of the structure and the improvement of steel performance by adding alloying elements, and so on. There is no simple and perfect method to evaluate the cleanness of steel, so a variety of appropriate methods are required. This Special Issue focuses on “Development of Clean Steel Production”. We hope to show the latest research and to bring new insights on clean steel production. You are welcome to submit manuscripts on clean steel production, including but not limited to those on converter steelmaking, ladle refining, tundish metallurgy, continuous casting, ingot casting and electromagnetic metallurgy.

Guest Editors

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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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