



Clean Ironmaking and Steelmaking Processes

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Message from the Guest Editors

The iron and steel industry is a major emitter of CO₂, especially in ironmaking and steelmaking processes. In the context of global low-carbon development, there is an urgent need for innovation in energy-saving and carbon reduction technology in the iron and steel industry. On one hand, iron and steel enterprises realize the transformation of energy structure by improving production processes, updating production equipment and using low-carbon energy. On the other hand, iron and steel enterprises and research institutes have committed to the development of deep decarbonization and zero carbon technologies. In recent years, clean ironmaking and steelmaking processes have been developing rapidly, especially in energy conservation, high efficiency, carbon emission reduction, energy structure adjustment, hydrogen metallurgy, electric arc furnace steelmaking, novel ironmaking and steelmaking technologies, and so on.

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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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