Special Issue

Green and Intelligent Steelmaking Technologies with Low Carbon Emissions

Message from the Guest Editors

Reducing carbon emissions from the steel industry is vital for achieving the strategic goals of carbon peak and carbon neutrality. Steelmaking is an important link in the metallurgical process of iron and steel, and it is necessary to carry out relative technical innovation in order to reduce carbon emissions from steelmaking processes. Currently, converter steelmaking and electric arc furnace steelmaking are the main steelmaking methods and in recent years, many green and intelligent steelmaking technologies have been proposed and developed, especially in slag utilization, process optimization, green electric steelmaking, intelligent smelting and so on.

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Deadline for manuscript submissions

closed (20 November 2024)

Metals

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Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/169539

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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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