



## Computational Simulation and Numerical Modeling of Metal Refining and Casting Process

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### Message from the Guest Editor

During the refining and casting process of metals, it occurred that complex and varied physical and chemical phenomena such as fluid flow, electromagnetic, heat transfer, mass transfer, and thermodynamic reactions.

To understand these physicochemical phenomena of metal refining and casting processes, it is very important that the prediction of physicochemical phenomena during the refining and casting process using computational simulation and numerical modeling.





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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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