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Advances in Phase Transformation Behavior of Steels

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Message from the Guest Editor

Dear Colleagues,

This Special Issue on "Advances in Phase Transformation Behavior of Steels" is devoted to the latest developments and achievements as well as to critical reviews related to phase transformation in steels. We strongly encourage the submission of research that tackles new observations on the phase transformations and characterization of multiphase steel microstructure with the help of newly developed techniques or the application of various techniques in a smart way, the modelling of phase transformation either under processing or in-service conditions, the application of processing and/or modelling strategies to optimize steel properties through controlled phase transformation, etc.

The processing–microstructure–property relationships of steels continue to be one of the most challenging topics in steel research as the difficulty in understanding the subtle details of phase transformation reactions and the variety of attainable microstructures and properties make this research field a perpetually inspiring issue.

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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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