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Advanced Technology in Microalloyed Steels

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

The addition of small amounts of Nb, Ti, or V singly or in combination has been the key to producing high-strength steels at a low cost. Microalloyed steels are now commonplace in a huge variety of applications. The subject of microalloyed steels interacts significantly with many aspects of metallurgy such as strengthening mechanisms, toughness, ductility, hot working, cold working and recrystallization, non-metallic inclusions, precipitation and phase transformation, grain refinement, weldability, etc. With a view to new microalloying technologies in high-strength steels, we offer this Special Issue entitled "Frontiers in Microalloyed Steels". The purpose of this Special Issue is to organize information about the interactions between processing and microstructural development and the effect of microalloying additions to provide a basis for the control of the microstructure, and hence the properties, in microalloyed steels subjected to industrial heat treatments and hot working practices.

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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.

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