Special Issue

Advances in Low-carbon and Stainless Steels

Message from the Guest Editors

This Special Issue of Metals, is dedicated to the recent advances in low-carbon and stainless steels. Although these types of steels are not new, they are still receiving a great attention from both research and industry sectors, due to their wide range of applications and their complex microstructure under different conditions. The microstructure of low carbon and stainless steels resulted from solidification, phase transformation and hot working is complex, which, in turn, affects their performance under different working conditions. A detailed understanding of the microstructure/property/performance for these steels has been the aim of steel scientists for a long time. For this Special Issue, we are inviting papers on different aspects of these steels including their solidification, thermomechanical processing, phase transformation, texture, etc., and their corrosion, wear, fatigue and creep properties. We are also interested in papers which use predictive models at different scales to describe processing and/or properties in these steels. Finally, we particularly welcome novel research on duplex stainless steels due to their current significant growth.

Guest Editors

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About the Journal

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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