Special Issue

High-Strength Low-Alloy Steels

Message from the Guest Editors

High-strength low-alloy steels are designed to provide specific desirable combinations of properties, such as strength, toughness, formability, weldability, and corrosion resistance. Despite the huge progress achieved over time on the behaviour of high-strength low-alloy steels, the development of more sophisticated products, combined with new manufacturing methodologies and new processing techniques, require additional research to address the new unsolved questions and to strengthen the existing knowledge in the field. The goal of this Special Issue is to foster the dissemination of the latest research devoted to high-strength low-alloy steels from different perspectives, more specifically: the assessment of structural integrity, experimental analysis and numerical modelling of mechanical behaviour, damage and failure under static and dynamic loading, alloy design and microstructural evaluation, the influence of environmental mediums, and advanced applications. Both experimental and numerical approaches are encouraged. Literature review articles are also welcome.

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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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