Special Issue

Microstructure and Mechanical Properties of Ferritic Steels

Message from the Guest Editor

Stainless steels exhibit a unique combination of high corrosion resistance and excellent mechanical properties for structural applications, and have been used as a high-performance construction material over the past few decades. They are categorized into the five different material grades of austenitic, duplex, ferritic, martensitic and precipitation-hardening. Amongst these, ferritic stainless steel is the most competitive grade of stainless steel material due to its unique characteristics, such as ductility, impact resistance and formability, and is suitable for use in a wide variety of architectural and structural applications. The aim of this Special Issue is to cover the mechanical properties and structural behavior of ferritic steels used in various conditions and environments. This Issue also focuses on the behavior and response of ferritic cold-formed stainless steel structures. In this Special Issue, original research articles and reviews are welcome.

Guest Editor

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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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