# **Special Issue**

# Recent Advances in Microstructure and Mechanical Properties of High-Strength Steels

# Message from the Guest Editor

This Special Issue aims to provide a platform for the dissemination of the latest research and developments in the field of high-strength steels, with a particular focus on the relationship between microstructure and mechanical properties. High-strength steels are of great importance in various industries, such as automotive, aerospace, and infrastructure, due to their superior strength-to-weight ratio, durability, and costeffectiveness. The scope of this Special Issue includes a wide range of topics, including, but not limited to: -Novel steel compositions and microstructural design strategies for enhanced strength and ductility -Advancements in thermomechanical processing and heat treatment of high-strength steels -Characterization techniques for in-depth understanding of microstructural evolution and phase transformations -Modeling and simulation of microstructure-property relationships in high-strength steels - Innovative manufacturing and joining techniques for high-strength steel components - Corrosion and wear behavior of high-strength steels in service environments

## **Guest Editor**

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#### Deadline for manuscript submissions

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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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