# **Special Issue**

# Microstructure—Mechanical Property Relationships in High-Strength Steels

# Message from the Guest Editors

This Special Issue of Metals has as its focus the microstructure–mechanical property relationships in (1) traditional high-strength steels such as ferritic/pearlitic steels, precipitation-hardening steels,

bainitic/martensitic steels, maraging steels, stainless steels, bearing steels, spring steels, rail steels, etc. Additionally, we intend to highlight (2) advanced highstrength steels such as dual-phase steels, complex phase steels, low-alloy TRIP-aided steels with a different matrix structure, medium-/high- Mn steels, medium-/high- entropy steels, low-density steels, etc. In addition to inviting submissions on these topics, we also welcome research articles on mechanical properties such as tensile properties, formability, toughness, fatigue properties, delayed fracture strength, wear properties, and so on, tested in several conditions such as elevated and cryogenic temperatures, corrosive atmosphere, etc.

## **Guest Editors**

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#### Deadline for manuscript submissions

closed (31 March 2024)



# Metals

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Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/159439

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# **About the Journal**

# 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.

#### Editor-in-Chief

## Prof. Dr. Yong Zhang

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

