

## Special Issue

# Microstructure–Mechanical Property Relationships in High-Strength Steels (2nd Edition)

### Message from the Guest Editors

This Special Issue of *Metals* focuses on microstructure–mechanical-property relationships in (1) advanced high-strength steels, including dual-phase steels, complex-phase steels, low-alloy TRIP-aided steels with a different matrix structure, medium-/high-Mn steels, medium-/high-entropy steels, and low-density steels. Additionally, we intend to highlight (2) traditional high-strength steels such as ferritic/pearlitic steels, precipitation-hardening steels, bainitic/martensitic steels, maraging steels, stainless steels, bearing steels, spring steels, or rail steels. In addition to inviting submissions on these topics, we also welcome research articles on mechanical properties, including tensile properties, formability, toughness, fatigue properties, delayed fracture strength, and wear properties, tested in several conditions, such as elevated and cryogenic temperatures or a corrosive atmosphere.

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### Guest Editors

Prof. Dr. Koh-ichi Sugimoto  
Dr. Tomohiko Hojo  
Dr. Junya Kobayashi

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### Deadline for manuscript submissions

closed (31 January 2025)



## Metals

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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.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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