# **Special Issue**

# Advances in the Design and Behavior Analysis of High-Strength Steels

## Message from the Guest Editor

High-strength steel demonstrates remarkable performance in industrial applications, such as in vehicles, ships, airplanes, construction, etc. However, the service life of high-strength steel, especially under extreme conditions such as cyclable loadings, high humidity and salinity, and low-to-high temperatures, requires improvement. Thus, the industrial application of high-strength steel needs further investigation of its microstructural evolution, mechanical properties, and corrosion and wear resistance in various service environments. The aim of this Special Issue is to provide *Metals* readers with the most up-to-date research on high-strength steel development for industrial applications. The scope is particularly related to high-strength steel material design, microstructural evolution in various environments, corrosion and wear mechanisms, the use of advanced techniques for testing, etc. We also welcome reviews and research articles.

## **Guest Editor**

Dr. Yanxin Qiao

School of Materials Science and Engineering, Jiangsu University of Science and Technology, Zhenjiang 212003, China

### Deadline for manuscript submissions

closed (31 May 2025)



## Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/198169

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/ metals





## **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



## **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

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

#### **Author Benefits**

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

### **Journal Rank:**

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

### **Rapid Publication:**

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).

