

## Special Issue

# Design, Preparation and Properties of High Performance Steels

### Message from the Guest Editors

Currently, for high-performance steels, not only have mechanical properties such as high strength and toughness been sought but more attention has also been focused on improving application performances, such as ensuring better weldability and formability, longer service life and higher safety. According to different engineering scenarios, more specific performance requirements are also proposed. The development of high-performance steel is inseparable from the support of physical metallurgy theory. The design of alloy elements and multi-scale regulation of microstructure became more and more accurate and comprehensive. It is believed that the continuous innovation of physical metallurgy theory and the continuous progress of industrial technology and equipment will undoubtedly promote the improvement of steel performances. In this Special Issue, we welcome the articles that propose novel designs of alloying and processing to achieve high performance. Research works with bright engineering application prospects are particularly welcomed.

### Guest Editors

Dr. Xiucheng Li

Collaborative Innovation Center of Steel Technology, University of Science and Technology Beijing, Beijing 100083, China

Dr. Shilong Liu

School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

### Deadline for manuscript submissions

closed (30 July 2024)



## Metals

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CiteScore 5.3



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto:metals@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

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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

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

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