

## Special Issue

# Current Trends in Steels: High Mn Steels for Cryogenic Applications

### Message from the Guest Editor

*Metals* is launching a new Special Issue entitled “Current Trends in Steels: High Mn Steels for Cryogenic Applications.” The Special Issue will provide a platform for presenting the latest experimental and theoretical results in the innovative field of high-Mn austenitic steels for cryogenic applications, such as liquefied natural gas, liquid hydrogen and liquid helium fields. The Special Issue covers strengthening mechanism, cryogenic toughening mechanism, hydrogen embrittlement susceptibility, low-cycle fatigue properties, deformation mechanisms at low temperatures (77 or 4.2 K), and other unusual “structure – properties” behaviors. We especially appreciate innovative studies in overcoming the strength (room temperature)–cryogenic impact toughness (77 or 4.2 K) trade-off. I would be delighted if you would be willing to contribute an original or review article to this Special Issue.

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### Guest Editor

Prof. Dr. Jun Chen

State Key Laboratory of Rolling and Automation, Northeastern University, Shenyang 110819, China

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### Deadline for manuscript submissions

closed (30 November 2022)



## Metals

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

[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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