# **Special Issue**

# Multi-Scale Simulation of Metallic Materials

## Message from the Guest Editor

Metallic materials include elemental metals and compounds or alloys. Today, they are one of-if not the most-important engineering materials and are additionally widely utilized as biomaterials. Present developments have led to an increasing demand for diverse new metallic materials, in addition to sustainable recycling, digital manufacturing, and environment- and climate-friendly production of devices and parts. Therefore, obtaining comprehensive knowledge regarding metallic materials on scales ranging from the atomic, micro-, meso- and macroscopic level has gained importance as of late. Correspondingly, multiscale simulation which combines existing and emerging methods is being employed to incorporate the wide range of time and space scales that are inherent to various disciplines. It is thus high time to have this Special Issue to improve our understanding of the complex metallic materials world.

#### **Guest Editor**

Dr. Changming Fang

Brunel Centre for Advanced Solidification Technology (BCAST), Brunel University London, Uxbridge UB8 3PH, UK

## Deadline for manuscript submissions

closed (31 March 2023)



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

mdpi.com/journal/ 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.

#### 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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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).

