Special Issue

Multi-scale Simulation of Metallic Materials (2nd Edition)

Message from the Guest Editor

Metallic materials include elemental metals and compounds or alloys. Today, they are one of 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 simulations which combine existing and emerging methods are being employed to incorporate the wide range of time and space scales that are inherent to various disciplines. This Special Issue, therefore, aims to improve our understanding of complex metallic materials in a timely manner.

Guest Editor

Dr. Changming Fang
BCAST, Brunel University London, Uxbridge UB8 3PH, UK

Deadline for manuscript submissions

closed (25 May 2025)

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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 Editorial Board

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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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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