



Microstructure-Mechanical Property Relationships in Metallic Materials

Guest Editors:

Dr. Matjaž Godec

Institute of Metals and
Technology Ljubljana, Ljubljana,
Slovenia

Dr. Danijela Skobir Balantič

Institute of Metals and
Technology Ljubljana, Ljubljana,
Slovenia

Deadline for manuscript
submissions:

closed (28 February 2022)

Message from the Guest Editors

Properties of metallic materials depend not only on their chemical composition, but also to a large extent on their microstructure, which evolves during various steps of manufacturing, e.g., from casting, extrusion, or hot rolling to heat treatment, cold forming, or welding. Modelling and simulation can enhance our understanding of microstructure evolution and hence provide a complement to experimentation, to predict, control and design microstructures for superior properties and optimum performance of metallic components.

This Special Issue is to serve as a source of information on recent advances in the area of microstructure modelling for scientists and engineers with an interest in manufacturing with metals. The aim is to provide a variety of examples of research and development activities in this field, where an analytical or numerical method is used to model microstructure formation in metallic materials during a manufacturing process.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **SCIE (Web of Science)**, **Inspec**, **CAPLUS / SciFinder**, and **other databases**.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)