



Modeling and Simulation of Metal Forming Processes

Guest Editors:

Dr. Ramin Hashemi

School of Mechanical
Engineering, Iran University of
Science and Technology, Tehran
16846-13114, Iran

Dr. Seyed Ali Niknam

Polytechnique Montreal,
Montreal, Canada; School of
Mechanical Engineering, Iran
University of Science and
Technology, Tehran 16846-
13114, Iran

Dr. Davood Rahmatabadi

School of Mechanical
Engineering, University of Tehran,
Tehran 14179-35840, Iran

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editors

Dear Colleagues,

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: sheet metal forming, bulk metal forming, and sheet-bulk metal forming and different modeling techniques, such as the slip line field technique, slab method, viscoplasticity, finite difference method, upper bound method, and finite element analysis. The Special Issue also covers all forming processes and modeling methods, including bulk forming, sheet forming, forming in near-melt conditions (thixoforming, injection molding, film blowing), powder forming, hydro-forming, hot stamping, micro-forming, incremental forming, thermo-forming, extrusion additive manufacturing, laser sintering, severe plastic deformation techniques, etc. Other manufacturing technologies, such as cutting and machining, can be considered if the article focuses on plastic deformations. The Special Issue also intends to present the fundamental development trends in the field together with the most recent advances in the use of metallic materials—synthesis, advanced experimental characterization, material modeling, and engineering applications.





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 and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
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/Metals_MDPI)