



metals



an Open Access Journal by MDPI

Computational Methods in Metal Manufacturing Processes

Guest Editors:

Prof. Dr. Eric Feulvarch

Laboratoire de Tribologie et
Dynamique des Systèmes, Écully,
France

Prof. Dr. Hamid Zahrouni

CNRS, Arts et Métiers ParisTech,
LEM3, University of Lorraine, F-
54000 Nancy, France

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

Virtual manufacturing is attracting increased interest for its capability to improve or invent product designs while respecting a responsible life cycle. The industrial application of virtual manufacturing requires the development of new efficient numerical strategies for simple calibration, easy use, and fast results, despite the complexity of the nonlinear coupled problems that must be solved.

This Special Issue, entitled “Computational Methods in Metal Manufacturing Processes”, will focus on this purpose. Our goal is to publish a notable issue on this topic, covering areas including (but not limited to) assembling processes; bulk and sheet metal forming; machining, drilling, and grinding processes; additive manufacturing; tribology and surface engineering processes; control and optimization of manufacturing processes; modeling and numerical methods for forming and manufacturing processes, including constitutive modeling for forming and manufacturing of metals, reduced order modeling (ROM), and proper generalized decomposition (PGD).



mdpi.com/si/49441

Special Issue



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, Ei Compendex, CAPus / 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/X@Metals_MDPI)