metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 5.3

Numerical Simulation of Metals Welding Process—2nd Edition

Guest Editors:

Prof. Dr. Tomasz Kik
Department of Welding Engineering, Faculty of Mechanical Engineering, Silesian University of Technology, Gliwice, Poland

Dr. Mato Perić
Department of Mechanical Engineering, University North, Trg dr. Žarka Dolinara 1, 48000 Koprivnica, Croatia

Deadline for manuscript submissions:
closed (20 October 2024)

Message from the Guest Editors

Dear Colleagues,

Welding processes are technologies that have been with us for a long time and are constantly developing. Modern software today gives engineers the opportunity to learn more about the mechanisms occurring in modern materials subjected to the impact of the welding thermal cycle. I invite you to send scientifically valuable articles for this Special Issue entitled "Numerical Simulation of Metals Welding Processes (Volume II)". Its scope is very wide and covers all issues of computer-aided use, in particular numerical analyses, in the design and diagnostics of welded elements and structures. The purpose of this Special Issue is to present the latest developments in the field of numerical simulations of welding, so articles should concern the issues of the numerical analyses of welding and heat treatment processes, as well as their use in the design and diagnosis of welded structures. Studies on the influence of the welding heat cycle on the properties, structure, stresses and distortions distribution of welded joints, supported by computational methods, are also welcome.

Dr. Tomasz Kik
Dr. Mato Peric
Guest Editors

metals

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

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

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.

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, 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