

Special Issue

Novel Insights into Hot Sheet Metal Forming of High-Performance Materials

Message from the Guest Editors

The interest in thermo-mechanical forming processes of high-performance materials has grown significantly in recent years. While being the solution to many lightweight actions, the hot forming industry will also face its own challenges to meet the global sustainability goals. Improving efficiency in heating technology and minimizing scrap, as well as the introduction of green or fossil-free steels will help us to shift to a higher degree of circularity. Research and Development both on the academic as well as on the industrial level is one of the most important prerequisites for continuous innovation in hot forming of high-performance materials and open new scenarios to exploit their lightweight potential. The 9th CHS2 conference will be held in Nashville (USA) and aims to keep pushing the innovation trends in press hardening and related thermo-mechanical processes and to boost their application to other markets (such as heavy duty and industrial vehicles, aerospace, etc.), new applications (new needs from e-mobility), and new materials (light alloys, CFRP, hybrid materials, etc.) while considering sustainability and circularity topics.

Guest Editors

Prof. Dr. Daniel Casellas

1. Eurecat, Centre Tecnològic de Catalunya, Manresa, Barcelona, Spain
2. Division of Mechanics of Solid Materials, Luleå University of Technology, Luleå, Sweden

Prof. Dr. Jens Hardell

Division of Machine Elements, Luleå University of Technology, Luleå, Sweden

Deadline for manuscript submissions

25 April 2025



Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



mdpi.com/si/197223

Metals

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)



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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).