Special Issue

Thermomechanical Processing of Steels

Message from the Guest Editors

The achievement of mechanical properties and process stability during a Thermomechanical Controlled Process (TMCP), depend on the chemical composition, process parameter control and optimization, as well as post-forming cooling strategy and thermal treatments. Therefore, this Special Issue would like to combine contributions on different fields, topics, steel grades and forming technologies applying TMCP processes to steels. Papers regarding forming technologies, such as rolling, forging, hot-stamping, etc., using microalloyed, medium/high Mn or alternative high alloyed grades will be welcome. New technologies, such as near-net-shape production, innovative cooling strategies, such as direct quenching, quenching and partitioning or additional controlled cooling strategies will be the base for current and future new product developments.

In addition to the metallurgical peculiarities and relationships between chemical composition, process and final properties, the impact of advanced characterization techniques and innovative modelling strategies provides new tools to achieve further deployment of the TMCP technologies.

Guest Editors

Prof. Dr. José María Rodríguez-Ibabe

President and Researcher at CEIT, CEIT, 20018 Donostia-San Sebastian, Basque Country, Spain
Professor at Universidad de Navarra-Tecnun, Materials Science and Metallurgy, Universidad de Navarra-Tecnun, M. Lardizabal 15, 20018 Donostia-San Sebastian, Basque Country, Spain

Dr. Pello Uranga

Materials and Manufacturing Division, CEIT-BRTA and Universidad de Navarra-Tecnun, 20018 Donostia-San Sebastian, Basque Country, Spain

Deadline for manuscript submissions

closed (20 February 2020)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/19330

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

mdpi.com/journal/metals

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/journal/metals

About the Journal

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.

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

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 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 2025).

MDPI