

Special Issue

TRIP Steels

Message from the Guest Editors

TRIP steels are one of the most attractive materials developed in the last few decades by the steel industry. TRIP steels can be used to produce more complicated parts than other AHSS and they offer, with thinner panel thickness, superior mechanical response. Moreover, their high energy absorption capacity and fatigue strength make them particularly suitable for safety parts, such as bumper bars, impact beams, B-pillars and reinforcements. Therefore, these advanced steels allow automotive designers to optimize weight and structural performance. The Special Issue will include (but will not be limited to) the following topics: Influence of alloying elements, comprising standard and innovative grades; microstructures and their development, including phase equilibrium and transformations, thermo-mechanical stability, and heat treatments; mechanical performance, with strength, toughness, impact, and fatigue behavior; formability, covering rolling, stamping, and welding.

Guest Editors

Prof. Dr. Antonio Mateo

1. Department of Materials Science and Engineering, Universitat Politècnica de Catalunya, 08034 Barcelona, Spain
2. Center for Research in Structural Integrity, Micromechanics and Reliability of Engineering Materials, CIEFMA, Avda. Eduard Maristany, 10-14 08019 Barcelona, Spain

Dr. Joan Josep Roa

R&D Department-Test Lab, Steros GPA Innovative S.L., C/Maracaibo 1, Naus 2-6, 08030 Barcelona, Spain

Deadline for manuscript submissions

closed (20 November 2019)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/17071

Metals

Editorial Office
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 2.5
CiteScore 5.3



[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, 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).