Special Issue

Advances in Rolling Process of Metallic Materials: Measurement, Modeling, Optimization and Applications

Message from the Guest Editor

We are delighted to invite you to contribute to this Special Issue, which is dedicated to supporting the high-quality development of the iron, steel, and non-ferrous metals industries. This Special Issue seeks to provide a comprehensive analysis of rolling technology and facilitate the exchange of knowledge regarding key challenges and innovative accomplishments in the field. It also aims to explore future development trajectories for green, efficient, low-carbon, and intelligent rolling processes. We welcome the submission of original research articles and reviews. The scope of this Special Issue includes, but is not limited to, the following topics: Recent advances and future trends in rolling technologies; Development and application of online quality inspection technologies; High-precision modeling and control techniques for rolling processes; Applications of industrial big data analytics in rolling production; Artificial intelligence algorithms and smart factory implementation; Innovations in rolling processes and product development for high-quality metallic materials; Rolling production equipment, instrumentation, heating, heat treatment, and related technologies.

Guest Editor

Dr. Dong Xu
Institute of Engineering and Technology, University of Science and Technology, Kunlun Road, Changping District, Beijing, China

Deadline for manuscript submissions

31 May 2026

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/252869

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 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).

MDPI