

## Special Issue

# Forming Mechanism for Extrusion of Metals and Alloys

### Message from the Guest Editors

Dear colleagues, Extrusion processing is a common method that is currently being used in the plastic forming of metals and alloys. In recent years, in addition to improving direct/indirect extrusion processing methods, new technologies have been proposed. The forming mechanism for the extrusion of metals and alloys, which includes the control and characterization of a material's final properties and the analysis of the forming mechanism that is activated during the extrusion processing, are the scope of this Special Issue. Fundamental research and technological innovation promote the integration of extrusion technology. It is particularly critical to find existing shortcomings, to attempt to make breakthroughs, and to continuously bring new research topics and development paths to the forefront. In this Special Issue, we welcome articles that focus on novel extrusion technologies and their influence on the final mechanical properties and formability of materials, including steels and nonferrous alloys (magnesium/aluminum/titanium alloys, etc.).

### Guest Editors

Prof. Dr. Hui Yu

Department of Material Forming and Control Engineering, Hebei University of Technology, Tianjin 300130, China

Dr. Qinghang Wang

Department of Material Forming and Control Engineering, Yangzhou University, Yangzhou 225012, China

### Deadline for manuscript submissions

closed (31 December 2022)



## Metals

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/108296](https://mdpi.com/si/108296)

*Metals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto: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).