



Innovative Mechanical Processing Technology of Metals

Guest Editors:

Prof. Dr. Quang-Cherng Hsu

Department of Mechanical Engineering, National Kaohsiung University of Science and Technology, Kaohsiung 80778, Taiwan

Prof. Dr. Kunio Hayakawa

Department of Mechanical Engineering, Graduate School of Integrated Science and Technology, Shizuoka University, Shizuoka 422-8017, Japan

Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

The mechanical processing of metal materials is an essential manufacturing process that affects the performance of materials. The technology for processing metal materials is undergoing a profound transformation driven by digitalization. The development and introduction of innovative technologies can optimize processing methods to produce products with enhanced performance and higher quality so as to meet the requirements of the industry. This Special Issue aims to present the latest research on the innovative processing of metal materials. The Special Issue includes—but is not limited to—the following topics:

- Innovative metal processing technologies;
- Innovative metal forming, including forging, rolling, extrusion, sheet-metal forming, etc.;
- Innovative metal cutting, including turning, milling, broaching, grinding, etc.;
- Innovative metallic product design, process analysis, and experiments;
- Novel design methods and the optimization of processing technology;
- Industry 4.0, IoT, and 5G-related applications on metals.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/Metals_MDPI)