

## Special Issue

# Research Progress in Manufacturing and Machining of Metallic Materials

### Message from the Guest Editor

In recent years, advanced manufacturing techniques, particularly additive manufacturing, have reshaped traditional practices, enabling the fabrication of intricate geometries while significantly reducing material waste. Hybrid approaches that integrate additive and subtractive methods are emerging as powerful solutions to enhance production flexibility, accuracy, and material efficiency. Sustainability remains a central focus in modern manufacturing, with research dedicated to energy-efficient practices, waste reduction, and the recycling of metallic materials.

On the whole, then, this Special Issue aims to present a comprehensive view of the recent progress and emerging trends that are defining the future of metallic material manufacturing. We hope that it serves as an essential resource for researchers, engineers, and industry professionals dedicated to advancing the field and shaping the next generation of manufacturing and machining processes.

- metallic materials
- conventional machining
- alternative machining
- hybrid manufacturing
- machinability
- machining efficiency
- surface finish
- mechanical property

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### Guest Editor

Dr. Guangxian Li

School of Mechanical Engineering, Guangxi University, Nanning, Guangxi 530004, China

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### Deadline for manuscript submissions

closed (31 July 2025)



## Metals

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

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## 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.

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### 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

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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).