

## Special Issue

# Advanced Metallic Materials and Forming Technologies

### Message from the Guest Editors

Advanced metallic materials and forming technologies are essential for innovation in high-performance sectors like aerospace, automotive, and next-generation energy systems. The development of new alloys and forming methods is key to achieving superior properties, complex geometries, and improved sustainability in manufacturing. This Special Issue, “Advanced Metallic Materials and Forming Technologies,” highlights research on the interplay between material design, advanced forming processes, microstructure evolution, and performance. Our goal is to share discoveries and engineering applications that drive progress in both academia and industry. This issue aligns with *Metals* by exploring innovations in the field. We invite contributions on fundamental mechanisms, experimental breakthroughs, and computational modeling. Topics include:

- Novel steel and iron materials
- Lightweight aluminum and magnesium alloys
- Advanced alloy design and development
- Advanced forming technologies
- Microstructure-property control
- Sustainable, energy-efficient manufacturing
- Intelligent process control
- Multi-scale modeling and simulation

We look forward to your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



## Metals

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## 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.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
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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  
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