# Special Issue

# Advanced Processing Technology on Mg Alloys

## Message from the Guest Editors

With the popularization of lightweight vehicles and airplanes, new structural materials have become more and more important, among which magnesium alloy is one of the most important lightweight metallic materials. The processing of magnesium alloy is very important, which decides whether the structure can be manufactured and further be used. As a result, this Special Issue is focused on the advanced processing technology on Mg alloys. Articles concerning the processing method of magnesium alloys, the characterization, as well as the simulation are welcome. Any new processing method on Mg alloy, such as stamping, forging, casting, welding, additive manufacturing and the characterization on its mechanical property, as well as the new processing finite element (FE) modeling method are welcome. More specifically, this Special Issue will cover (but is not limited to) the following fundamental and applied research topics:

- Mg alloys;
- Processing innovation;
- Processing control;
- Characterization;
- Mechanical behavior;
- Process modeling;
- Forming, casting, joining, machining;
- Additive manufacturing.

## Guest Editors


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## Deadline for manuscript submissions

closed (31 August 2023)


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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.

## Editor-in-Chief

Prof. Dr. Yong Zhang
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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).

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