

Special Issue

Forming and Properties of Lightweight Alloys

Message from the Guest Editors

With the urgent need for weight reduction in aerospace vehicles, lightweight structural materials with excellent mechanical properties, especially those represented by aluminum alloy, magnesium alloy, and titanium alloy, have become the focus of aerospace research. In recent years, many forming technologies have been developed to improve the performance of lightweight metal materials. This special issue covers these topics and focuses on the forming process, microstructure evolution, and service performance of lightweight metal materials. For this Special Issue, we look forward to receiving submissions in any form, including review articles, regular research articles, and short communications. Both experimental and theoretical studies are of interest.

Guest Editors

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Deadline for manuscript submissions

closed (15 July 2025)



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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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