



Advance in Wire-Based Additive Manufacturing of Metal Materials

Guest Editor:

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Deadline for manuscript submissions:

closed (31 May 2025)

Message from the Guest Editor

This topic focuses on the latest developments in wire-based additive manufacturing technology; its scope is to explore this technology and the research into microstructure characterization and mechanical performance. This topic also outlines the primary development trend, engineering application, and numerical simulation of wire-based additive manufacturing methods. In terms of the deposition process, it covers various wire-based deposition processes, including traditional methods and emerging techniques, such as arc, laser, electron beam, friction stir, etc. Submitted articles should cover truly novel methods or technology in the field of wire-based additive manufacturing and processes that can effectively improve the deposited defects, microstructure, performance, and residual stress of components.





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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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