

Special Issue

Metallic Materials and Their Applications in Aerospace and Advanced Technologies

Message from the Guest Editor

This Special Issue provides a forum for publishing papers which advance the in-depth understanding of the relationship between the structure, the properties or the functions of all kinds of metals involved in aerospace and advanced technologies. Works are expected related to metal processing, forming and welding, especially the latest methods, like magnetic pulsed welding, electro-hydro-forming, friction stir welding, and metal treatments; innovative processes for lightweight metallic structures like metallic foam production and characterization, and lattice structured metallic materials; recent progress in additive methods and innovative deposition processes like plasma spray, cold spray, and selected laser melted metals; mechanical characterization, constitutive laws and the dynamic behavior of metals; metallic glass, amorphous metals and their applications; ageing and recycling of metallic materials; and structural health monitoring, non-destructive control of metallic structures and materials.

Guest Editor

Prof. Michel Arrigoni
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Deadline for manuscript submissions

closed (30 June 2021)



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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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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).