

Special Issue

Additive Manufacturing of Light Metal Alloys

Message from the Guest Editors

Interest in metal additive manufacturing (AM) has increased steeply over the last twenty years. This is due to the great advantages offered by metal AM technologies such as laser–powder bed fusion (L-PBF), electron beam–powder bed fusion (E-PBF) and laser-engineered net shaping (LENS): these include high design freedom, waste reduction, parts performance optimization and strong tuning of material properties.

In this context, light alloys such as aluminum-, titanium- and magnesium-based alloys represent one of the most investigated class of metal alloys due to their intriguing properties such as high strength-to-weight ratios, high corrosion resistance and wide possibilities of properties enhancing through alloying.

With this premise, this Special Issue of Metals represents a will to contribute to the growth of the know-how in the field of processing light alloys by means of AM technologies, mostly intended as powder-based ones. Your contribution to this 2022 account is highly valuable and appreciated. We therefore invite you to contribute with original research work concerning the AM of light alloys.

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Deadline for manuscript submissions

closed (30 June 2024)



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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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