Special Issue

Additive Manufacturing of Metallic Alloys and Composites

Message from the Guest Editors

Additive manufacturing (AM), being a disruptive technology, has affected the manufacturing paradigm to a great extent. The main advantage of AM is the minimum tooling required, along with the high buy-to-fly ratio, due to the addition of layers that waste less raw material. Consequently, the cost of the fabricated parts and lead time has significantly declined. Moreover, this technology is very suitable for the smaller lot production in prototyping the new part design. There are various techniques involved in additive manufacturing, such as binder jetting and selective laser sintering, employed for the 3D printing of metals. The main challenge is to formularize the materials system that shall be compatible with each other and provide a cost-effective solution in terms of raw materials, processing, and operations cost. Moreover, the components produced will have higher-quality features. This Special Issue focuses on the materials system development and processes for metallic and composite additive manufacturing; however, topics in other 3D printing technologies and the AM of composite materials, such as fiber-reinforced polymers (FRPs), are also welcomed.

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Deadline for manuscript submissions

closed (15 May 2023)

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/112648

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