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Recent Advances in Metal Powder Based Additive Manufacturing

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Deadline for manuscript submissions:

closed (20 September 2024)

Message from the Guest Editors

This Special Issue welcomes original research and high-quality comprehensive reviews on recent advances in metal-powder-based additive manufacturing. The focus of this topic includes the design of new alloy compositions, developing the understanding of microstructure evolution and the impacts on mechanical properties. Material systems of interest include, but are not limited to, structural materials, different types of steels, aluminium, titanium, nickel, copper, cobalt-based alloys, refractory metals, shape-memory alloys, high-entropy alloys, and bulk metallic glasses.

Contributing papers are solicited in the following fields:

- Novel alloy design tailored for AM;
- Novel metal powder AM processes;
- Multi-materials processing in AM;
- Microstructural evolution during the AM processes;
- Microstructure and property relationships of AM components;
- Microstructural response of AM components to post-processing conditions.





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Message from the Editorial Board

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