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Novel Research on Laser Additive Manufacturing for Metal and Alloy

Guest Editors:

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Laser additive manufacturing (LAM) has emerged as one of the mainstream additive manufacturing (AM) technologies for processing metals and alloys. Two major LAM categories, namely laser powder bed fusion (L-PBF) and laser-based direct energy deposition (L-DED), are widely adopted in numerous industries, including the aerospace, automotive, biomedical, and marine ones, energy-related sectors, etc.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following topics: new material and alloy development for improved properties or printability, process modification and innovation (i.e., micro L-PBF, field-assisted LAM, etc.), advances in microstructure and property control, stress and deformation management, novel modeling and simulation methods for the prediction of the thermal and stress fields, as well as microstructures and properties, novel post-processing methods, process monitoring and control, and advanced applications of LAM in metallic components.

We look forward to receiving your contributions.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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