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Laser Additive Manufacturing: Design, Materials, Processes and Applications

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Message from the Guest Editors

Dear Colleagues,

Laser-based additive manufacturing (AM) is a revolutionary advanced digital manufacturing technology developed in recent decades, which is also a key strategic technology for technological innovation and industrial sustainability. This technology unlocks the design and constraints of traditional manufacturing and meets the needs of the complex geometry fabrication and high-performance part fabrication. A deeper understanding of the design, materials, processes, structures, properties, and applications are desirable to produce novel functional devices, as well as defect-free structurally sound and reliable AM parts.

This Special Issue aims to cover all the possible topics involved from macro- to micro-scale additive manufacturing with lasers, including structure design, fabrication, modeling and simulation, in situ characterization of additive manufacturing processes, and ex situ material characterization and performance, with an overview that covers various applications in aerospace, biomedicine, optics, and energy.

It is our pleasure to invite you to contribute original articles, comprehensive reviews, and letters/opinions to this Special Issue.

Guest Editors

Special Issue



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Message from the Editor-in-Chief

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