Special Issue

Laser Additive Manufacturing: Design, Materials, Processes and Applications, 2nd Edition

Message from the Guest Editors

Following on from the success of the initial Special Issue on laser-based additive manufacturing (LAM), this second volume continues our exploration of the ever-advancing progress of the design, materials, processes and applications of LAM. LAM is a revolutionary advanced digital manufacturing and key strategic technology for technological innovation and industrial sustainability. This technology unlocks the constraints of traditional manufacturing and meets the needs of complex geometry fabrication and high-performance part fabrication. A deeper understanding of the design, materials, processes, structures, properties and applications of this technology is needed 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 in this field, including 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 performances, with an overview of various applications in aerospace, biomedicine, optics, etc.

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