Special Issue

The Next Generation of Metal Additive Manufacturing

Message from the Guest Editor

Metal additive processes have predominantly revolved around laser powder bed fusion (PBF-LB or LPBF), a trend evident in both academic publications and general interest. Given the specific limitations of PBF-LB in material selection, geometry generation, and productivity, a growing interest in alternative processes has been observed in recent years. In this context, we are witnessing the emergence of innovative technologies, representing the next generation of additive manufacturing approaches. This Special Issue aims to shed light on the technical status of these emerging technologies—next-generation additive manufacturing. We invite researchers to submit articles that provide insightful examinations of these procedures. In general, we welcome all cutting-edge research and activities related to the development of these new technologies, as well as supporting technologies related to these processes, such as feedstock development, heat treatment, and oven technologies.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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