Special Issue

Metal Additive Manufacturing Technologies

Message from the Guest Editor

Additive manufacturing (AM) technology has developed into a core technology for improving the design and manufacture of high-performance complex components, with constantly advancing engineering applications in aerospace, biomedical, energy, transportation, national defense and other fields. In the process of innovation and leapfrog development of AM technology, there are many key scientific and technical problems that require further research and breakthroughs. These problems include, but are not limited to: material design and interface control problems in the transition from single-material printing to multimaterial printing and from simple structure printing to multifunctional complex overall structure printing; structural design and print quality control problems; traditional trial-and-error process development and precise process control problems intelligent printing. Progress in the innovative development, technological progress and large-scale industrial application of AM technology necessitates a series of new principles, methods, materials, processes and technologies.

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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