Special Issue

Innovations in Metal Additive Manufacturing

Message from the Guest Editor

Metal additive manufacturing is the fastest growing area of additive manufacturing. This Special Issue is to publish papers covering recent key developments and innovations in the metal additive manufacturing arena. With rapidly growing interest in metal additive manufacturing, the recent research efforts to better understand, analyze, and control the microstructure and mechanical properties have significantly increased all over the world. We welcome papers related to, but not limited to, physics-based modeling, data-driven modeling approaches to describing process–microstructure–properties relationships, in-process monitoring, process control, topology optimization, synthesis of new materials and alloys, design, analysis and manufacturing of lattice structures, hierarchical material design, materials for additive manufacturing, as well as various novel applications. This Special Issue will hence serve as a platform to share the latest knowledge and successful results with other fellow researchers and general audiences interested in metal additive manufacturing.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

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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