Special Issue

Advances in Metal Additive Manufacturing: Materials, Technologies, Fabrication and Mechanical Properties

Message from the Guest Editor

The 3D-printed components of metallic materials represent a significant and growing portion of additively manufactured parts in increasingly diverse fields such as the medical, aerospace and automotive industries. Different technologies used in metal additive manufacturing are available today, as classified by the energy source, the way the material is joined or the feedstock state. Depending on the additive manufacturing technology, feedstock quality, process parameters, etc., the micro- and macro-mechanical properties of 3D-printed parts can be affected. This Special Issue will collect contributions on the additive manufacturing techniques used for metallic materials, the effects of process parameters on the microstructural and mechanical properties of 3D-printed parts and post-processing techniques. Review articles and short communications are also of interest for this Special Issue.

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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