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Recent Advances in Metal Processing and Manufacturing: Technique, Method, Performance, and Microstructure

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

In recent years, with the popularity and application of additive manufacturing technology (commonly known as 3D printing technology), metal additive manufacturing technology has begun to gain traction in the manufacturing field and has rapidly developed into one of the most promising advanced manufacturing technologies in the 3D printing field. At present, metal parts formed by metal additive manufacturing technology are gradually being used in aerospace, medical equipment, automobile manufacturing, and other fields.

Metal additive manufacturing is a process that uses fine, metal powders to create strong, complex components that are designed either by using a computer-aided design (CAD) program or by taking a 3D scan of the object. It offers the possibility to produce complex parts without the design constraints of traditional manufacturing routes.

This Special Issue kindly invites researchers from the aforementioned fields to present new theoretical or experimental results and recent advancements in the form of research articles and reviews.

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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.

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