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Process–Structure–Mechanical Properties of Metal Additive Manufacturing

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Message from the Guest Editors

Metal additive manufacturing (AM) has been used in many industries—aerospace, automotive, consumer products, industrial products, medical devices, and architecture. Lattice structure design, powder composition, processing parameter, and post-treatment influence the mechanical properties and accuracy of printed objects. Hybrid manufacturing is a combination method to improve accuracy and increase flexible manufacturing. Functionally graded material also opens a new application field that can be more focused on the effects of process, structure, and mechanical property.

This Special Issue of *Metals* focuses on metal additive manufacturing with respect to the topics mentioned below (please see the Keywords/Topics below). The papers presented in this Special Issue give an account of the 2020 scientific, technological, and industrial state of the art for metal additive manufacturing from different perspectives (see the Keywords/Topics below). Your contribution to this 2020 account is highly valuable and appreciated.

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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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