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Additive Manufacturing: From Fundamentals to Materials Performance and Applications

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Message from the Guest Editors

Dear Colleagues,

Additive manufacturing (AM) is revolutionizing the manufacturing sector, especially for the production of metallic components with added functionality—including complex or intricate geometries and conformal cooling channels—as well as for the production of highly customized parts with small production cycles. These processes include heat treatment; thermomechanical treatment; severe plastic deformation processes; casting and welding; and additive manufacturing, which can play a significant role in the creation of the desired properties of traditional metallic materials.

In this Special Issue, we aim to unite leading experts and scholars to contribute their insights, research findings, and innovations, thereby unraveling the multifaceted realm of additive manufacturing (AM) through exploring developments in the field and the design of alloys specific to the process. We welcome contributions from various disciplines, including materials science, metallurgy, mechanical engineering, computational modeling, and related fields.











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Message from the Editor-in-Chief

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