



Physical Phenomena, Microstructures, and Properties Unique to Metal Additive Manufacturing

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Message from the Guest Editors

Dear Colleagues,

Manuscripts are solicited for the Special Issue entitled “Physical phenomena, microstructures, and properties unique to metal additive manufacturing” of MDPI’s journal *Crystals*. The interplay of several physical phenomena spanning across several length and time scales makes metal additive manufacturing (AM) processing routes unique. Such unique processing conditions subsequently lead to unique microstructures and properties in additively manufactured metals and alloys. The objective of this Special Issue is to curate a collection of works that enhance the current understanding of the following:

1. The physical phenomena that occur during AM processing;
2. The unique evolution of microstructures in AM-processed metals and alloys;
3. The unique mechanical behavior, including deformation and damage mechanisms, of AM-processed metals and alloys.





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Message from the Editor-in-Chief

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