Special Issue

Metal Additive Manufacturing: Enhancing Performance and Surface Finishing

Message from the Guest Editors

Metal additive manufacturing (MAM) technologies have a wide range of applications in which they can be applied. In fact, they offer the possibility of an extremely high degree of design customization, as well as the opportunity to use various raw materials with savings in terms of use, costs, and time of design and production if compared to traditional processes. However, such an overwhelming expansion has led to the lack of clear and well-defined guidelines in terms of process parameters and resulting properties. This Special Issue aims to collect scientific contributions on new technologies, strategies, manufacturing approaches, and materials for the additive manufacturing of metals. Scientific contributions can be focused on process optimization for improved mechanical properties and surface finish, new material development for high-performance applications, and surface treatments. Furthermore, characterization methods and computational approaches for modeling the process and material properties (such as numerical simulations, mathematical modeling, optimization, control, etc.) and contributions featuring an environmental impact analysis (LCA), are of interest.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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