Special Issue

Recent Advances in Additive Manufacturing Technology of Smart Materials

Message from the Guest Editors

Additive manufacturing technologies have gained significant interest due to their design flexibility and ability to use various raw materials while reducing costs, material usage, and production time compared to traditional methods. However, challenges remain, including undefined process parameters, variability in final properties, and poor surface quality, which limit adoption in industries requiring stringent certification criteria. These issues often lead to higher costs and longer production times. This Special Issue focuses on novel technologies, strategies, materials, and production techniques for additive manufacturing. Topics include material development for high-performance applications, surface treatments, and process improvements for enhanced mechanical properties and surface finishes. Contributions on economic and environmental impact analysis, characterization techniques, and computational tools such as simulations, modeling, optimization, and control are also welcome. Submit your work to advance additive manufacturing processes and applications!

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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.

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