Special Issue

Multi-Material Additive Manufacturing (AM)

Message from the Guest Editors

Additive manufacturing (AM) is a developing technology that has the potential to revolutionize conventional production. Compared to conventional techniques, AM technologies eliminate the need for tooling and offer greater design and product modification options. Recent advancements in AM methods have permitted the use of multiple materials during the fabrication of parts using AM methods. The specific achievement allows the creation of multi-material structures with complicated geometries and parts made from a variety of materials with different thermal, chemical, and physical properties. Multi-material AM brings huge savings, considering production times. The fabrication of multi-material structures is a challenging task, and many industries are today addressing specific critical challenges that come with mixing materials. It is of great importance that multi-material design is analyzed from a holistic and multidisciplinary perspective where all aspects, from design to manufacturing, use, and recycling, are included in the process.

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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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