Special Issue

Characterization and Analysis of Additively Manufactured Metallic Materials

Message from the Guest Editor

As scientific and technological advancements progress, the requirements for materials functioning under specific circumstances are becoming more stringent. Conventional and composite materials often fail to meet the required functional and adaptive standards, leading to restricted applications. The emergence of additive manufacturing technologies is driving an industrial and scientific revolution that is transforming the design and manufacturing of future metallic materials. Among the anticipated advantages of AM are improved quality control, increased productivity, increased design freedom, enhanced material efficiency, and positive environmental effects. With ongoing research and innovation, AM can play an important role in sustainable manufacturing by reducing waste, improving mechanical properties, controlling the microstructure design, facilitating localized production, and fostering circular economies. Therefore, it is becoming a pivotal aspect of future manufacturing, integrating innovation, efficiency, and sustainability.

Guest Editor

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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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