Special Issue

Laser Additive Manufacturing of Metallic Alloys

Message from the Guest Editor

Metal laser additive manufacturing (MLAM), an advanced manufacturing technology utilized since the 1990s, involves the layer-by-layer deposition of metallic materials in order to build up a three-dimensional object using a digital model under laser without the need for molds. The benefits of MLAM include its ability to create highly complex, customized metal parts with unprecedented design freedom, and its potential to streamline production processes by consolidating multiple components into a single print. Due to its ability to offer material innovation and multifunctional designs, MLAM is becoming more and more popular among researchers. It is therefore being employed extensively in the aerospace, automotive, medical, energy sectors and other industries.

We are pleased to invite you to contribute to our Special Issue with your pioneering research, innovative viewpoints and thought-provoking reviews. Your expertise and contributions have profoundly influenced the advancement of metal additive manufacturing. Consequently, we look forward to presenting your recent achievements to our extensive international academics, researchers, engineers, and industry leaders.

Guest Editor

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Message from the Editorial Board

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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