

Special Issue

Research on Fatigue Behavior of Additively Manufactured Materials

Message from the Guest Editor

The development of additive technologies in complex components represents a great innovation in recent years. However, additive technologies pose a series of problems for designers, particularly concerning components' durability. Studying the fatigue behavior of the materials used in additive technologies is necessary to obtain increasingly reliable components. This issue aims to collect works in which the various aspects that influence the fatigue life of a component are studied, for example, the influence of process parameters, the type and concentration of defects, the surface quality, post-treatments, etc. Fractography studies are also important because they distinguish the different failure modes and support failure analysis. Review and research articles, as are case studies, are welcome, particularly if linked to failure analysis.

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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