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Fatigue in Materials Produced by Additive Manufacturing

Guest Editor:

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Message from the Guest Editor

Nowadays, additive manufacturing (AM) technologies are an attractive alternative to traditional processes thanks to the possibility of obtaining near-net-shaped complex components for lightweight structures. While the portfolio of new materials and technologies for AM is expanding rapidly, the task of assessing fatigue resistance for AM materials remains particularly challenging due to the number of processing and post-processing parameters involved. Therefore, I would like to invite you to contribute to this Special Issue. The aim of the Special Issue is to show the recent state-of-the-art in this field, providing novel data on fatigue properties of polymers, composites, metal alloys, or new materials, including architected cellular structures, produced by AM.

Research topics of interest include investigations on correlations between the response of materials to cyclic loading and the technology employed, with associated microstructure, defect types, and surface finish. Comparative analysis on the influence of different AM or conventional processing and post-processing routes are also welcome, as well as highly focused reviews or perspective analyses on specific materials.

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Message from the Editor-in-Chief

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