Special Issue

Fatigue Behavior in Metallic Materials

Message from the Guest Editor

There has been a lot of advancements in the development of new materials as well as processing of conventional materials by non-traditional manufacturing routes so as to improve the mechanical performance of functional materials. Majority of the research output focuses on static behavior, as the characterization of long-term fatigue life life is cumbersome and expensive process; however for the reliable dynamic performance of materials, especially relatively novel materials whose behaviour remains less-known, their fatigue performance needs to be focused on. This issue aims at encouraging the researchers working in the field of mechanical characterization to report primarily original research focusing on fatigue performance of materials as a function of process parameters as well as material aspects. Goal is not only to have recent developments of fatigue literature, but also to understand the underlying process- and material-based characteristics influencing the fatigue behaviour. High quality reviews developing an understanding of the fatigue phenomena are also encouraged. Research in the areas ranging from low cycle fatigue to very high cycle fatigue are welcomed.

Guest Editor

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Deadline for manuscript submissions

closed (29 February 2024)

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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