Special Issue

Metal Fatigue 2021

Message from the Guest Editors

In this Special Issue, we aim to gather studies that focus on aspects that influence fatigue strength (both conventional fatigue limit and gigacycle fatigue strength) and the S–N curve and its shape. Studies on the influence of the processes of obtaining the material (composition, grain size, and subsequent thermal or surface treatments), manufacturing processes and later treatments (such as SP, LSP, LPB, and welding), additive manufacturing, residual stresses, and tribological parameters in the fatigue limit value are welcome. Studies on the use of time-varying stress values in fatigue design (cumulative damage) and the influence of mean tensile and compressive stresses (behavior models in the Haigh diagram for infinite life), as well as uniaxial and multi-axial fatigue methods, are also welcome.

Guest Editors

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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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