Special Issue

Focus on Fatigue and Fracture of Engineering Materials

Message from the Guest Editors

Considering that fatigue and fracture phenomena are responsible for 80% to 90% of failures in mechanical components, it is essential to study these phenomena in order to guarantee long-term durability and reliability. The introduction of new materials and new manufacturing processes brings new challenges to design and requires more focused research. This Special Issue aims to be a forum for the analysis of new trends in fracture mechanics and fatigue design in all materials, with special attention to new materials and new production processes as well as new failure models and new design criteria. Papers dealing with the effects of processing techniques, microstructure features, loading history, the environmental medium, and the modeling of mechanical behavior, as well as papers dealing with advanced applications, are encouraged. Both experimental and numerical approaches will be accepted. The Special Issue is open to both original research and review articles.

Guest Editors

Prof. Dr. Joel de Jesus
Dr. Ricardo Branco
Dr. Diogo Neto

Deadline for manuscript submissions

closed (20 December 2022)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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