Special Issue

Fracture and Fatigue Analysis of Metallic Materials

Message from the Guest Editors

Metallic materials play a pivotal role in a wide range of engineering structures and components across various sectors, including the aerospace, automotive, and energy industries. However, fatigue and fracture failures remain a significant threat to the safety and reliability of these structures. To address these challenges effectively, a deep understanding of the underlying fatigue failure and fracture mechanisms is required.

This Special Issue aims to bring together the latest scientific and technological advancements to tackle the complex challenges of fatigue and fracture in metallic materials. The scope of this Special Issue encompasses a broad range of topics, including fatigue behavior, fracture mechanisms, life prediction techniques, and advanced analysis methods. We encourage submissions that address both experimental and numerical investigations across a wide range of areas, from material to structure. By fostering a multidisciplinary approach, combining insights from metallurgy, mechanics, and materials science with recent trends in new manufacturing processes, we aim to shed light on the complexities of fatigue and fracture in metallic materials.

Guest Editors

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Deadline for manuscript submissions

20 February 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/225323

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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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