Special Issue

Advances in Fracture, Fatigue and Structural Integrity Analyses of Metals

Message from the Guest Editors

Given the good response of the scientific and technical communities to our previous Special Issue in Metals, entitled “Fracture, Fatigue and Structural Integrity of Metallic Materials” (2019), and given that research in these fields is continuously increasing in qualitative and quantitative terms, this new Special Issue intends to provide a forum for the dissemination of the latest significant advances in fracture, fatigue and structural integrity analyses. In this context, this Special Issue is focused on the latest advances in fracture, fatigue and structural integrity assessments of metallic structural components containing defects (cracks, notches, local thin areas, etc.) and also on developments that are being or could be incorporated in structural integrity assessment procedures such as BS7910, R6 or API 579-1/ASME FFS-1. Contributions covering other damage and failure processes, such as creep, environmentally assisted cracking or buckling, that affect the structural integrity of engineering structures are also welcome.

We invite you to submit original research and review articles, as well as short communications, related to these topics.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)

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About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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