# **Special Issue**

# Advances in Fatigue and Fracture of Metals and Alloys and Their Applications

## Message from the Guest Editors

The twin disciplines of fatigue and fracture are central to a wide range of industries: aerospace, power generation, nuclear power, rail, bridge construction, and others. However, recent developments have resulted in breakthroughs in a number of areas, both in conventionally and additively manufactured metallic metals. Furthermore, with the move to digital twins, 3D printing, and the ability to build materials with properties that are tailored to specific applications, these developments have the potential to transform the disciplines of fatigue and fracture as well as national economies. The aim of this Special Issue is therefore to create a focal point whereby practitioners, engineers, and researchers can access these numerous exciting developments.

## **Guest Editors**

Prof. Dr. Rhys Jones

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#### Deadline for manuscript submissions

closed (30 August 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

## Prof. Dr. Yong Zhang

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## **Journal Rank:**

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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).

