Special Issue

Fatigue, Creep Behavior and Fracture Mechanics of Metals

Message from the Guest Editor

The comprehension of the fatigue, creep, and fracture behavior of metallic materials is fundamental in order to assess the reliability of structural components. In this field, research progress helps to improve technical problems and constitutes a direct contribution to the safety of society. This Special Issue intends to collect several articles on all the aspects that help to determine the failure of metallic materials. Research contributions and reviewer surveys on the identification, evaluation, and measurement of the damage process involving fatigue, creep, and fracture behavior, considering both a theoretical and/or an experimental approach, are welcome. Presentations of industrial cases illustrating the use of analytical, numerical, and experimental techniques for the study of the failure of metallic components in the automotive, aeronautical, and mechanical sector are also welcome.

Guest Editor

Dr. Riccardo Nobile

Department of Engineering for Innovation, Università del Salento, 73100 Lecce, Italy

Deadline for manuscript submissions

closed (20 August 2024)



Metals

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/ metals





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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

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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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).

