

# Special Issue

## Failure Mechanisms in Alloys

### Message from the Guest Editor

In the frame of this Special Issue (“Failure Mechanisms in Alloys”), a valuable insight is aimed to be offered, covering critical subject areas in the field of metals and metallic component degradation processes. Indicative topics included in this thematic area, are the following:

- Microstructural-induced degradation and embrittlement
- Analysis and mechanics of fracture
- Damage evolution at nano- and microstructural level
- Environmentally-induced degradation processes, corrosion, wear and combined mechanisms
- Progressive mechanical failures, creep and fatigue
- Texture and morphology of fracture
- Modeling and simulation of degradation processes
- Failures in new and modern manufacturing processes, e.g., in additive manufacturing and severe plastic deformation
- Novel and modern analysis techniques for failure investigation
- Failure prevention strategies pertaining to microstructure or surface modification

Dr. George Pantazopoulos

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### Guest Editor

Dr. George A. Pantazopoulos

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### Deadline for manuscript submissions

closed (31 August 2019)



## Metals

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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.

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### Editors-in-Chief

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#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 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 2024).