



## Feature Papers in Metal Failure Analysis

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### Message from the Guest Editors

We are pleased to announce the launch of this Special Issue devoted to metal failure analysis. Failure analysis is especially important for structural materials as their fracture may have terrible consequences. Progress in the development of safe and sound constructions requires comprehensive investigation of fracture mechanisms, effects of internal stresses, and microstrains on crack nucleation and propagation. Thus, studying the microstructural mechanisms underlying the fracture mechanics is of great practical importance.

The aim of this Special Issue, “Feature Papers in Metal Failure Analysis”, is to highlight the current achievements in theoretical and experimental investigations of fracture behavior and its effect on mechanical performance of various metallic materials, focusing on the hottest success in analyzing the crack nucleation and propagation in metals and alloys under cyclic or monotonous loading as well as during exploitation. Papers dealing with experimental investigation, simulation, and analysis of failure of structural steels and alloys are also welcome.





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## 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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