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Fatigue Cracks in Steel

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Deadline for manuscript submissions:
closed (1 May 2022)

Message from the Guest Editors

Dear Colleagues,

Subcritical cracking of materials under fatigue (cyclic) loading is a problem of major concern in engineering due to the possibility of structural integrity loss when fatigue cracks develop in materials.

This Special Issue, "Fatigue Cracks in Steel", is dedicated to the latest scientific achievements in the field of crack propagation in steel under cyclic loading. Both reviews and articles are welcome, together with technical notes. This issue welcomes contributions of any kind in the field of fatigue crack growth in steels. All approaches will be considered, including theoretical, numerical, and experimental techniques. Any phase of the phenomenon of cracking can be analyzed, i.e., from the initiation to the propagation stage, and any environment can be highlighted, including aggressive or corrosive media.

It is our pleasure to invite you to submit a manuscript for this Special Issue.

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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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