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Mechanics Behavior, Fatigue Damage, and Microstructure Evolution of Metallic Material

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Deadline for manuscript submissions:
closed (20 April 2024)

Message from the Guest Editors

Dear Colleagues,

To improve the design and engineering application of metallics materials, their mechanics and fatigue behavior, failure mechanism, and microstructure should be addressed. This Special Issue aims to provide an exchange of opinions on recent developments in the field of the mechanical behavior and failure mechanisms of metallic material. We invite submissions devoted to the development of experimental and theoretical methods and models to evaluate and describe the behavior of materials when subjected to various types of loads. Potential topics include, but are not limited to, the following:

- Uniaxial and multiaxial tensile/compression
- low/high/very high cycle fatigue
- Crystal plasticity
- Damage/damage mechanisms
- Fatigue crack propagation
- Microstructure evolution
- Fatigue life assessment
- Failure analysis
- Numerical simulation

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Message from the Editor-in-Chief

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