Special Issue

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

Message from the Guest Editors

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

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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