

Special Issue

Fatigue Damage and Fracture Mechanics of Materials

Message from the Guest Editor

When looking at recent materials studies, failure mechanisms on various types of metal or non-metals have been extensively analyzed for determining the root cause of the failure. Nowadays, the combination of materials analysis, simulation and data analysis can exhibit exciting findings toward the advancement in the scope of fatigue damage and fracture mechanics of materials. The aim of this SI is to understand the fundamental and application issues of materials failure (damage) under fatigue and fracture conditions. It is aimed to make a collection of articles of contributions covering new trends, latest advancements, and case studies in the field of fatigue damage and fracture mechanics of materials. Thus, the element of structural integrity and durability assessment of materials, as well as structural health monitoring of materials and structures will be involved in this Special Issue. It welcomes contributions on theoretical work, numerical analysis, simulation works, experimental approaches, data analysis by means of stochastics or probabilistic analysis, and any related issues to the damage mechanics

Guest Editor

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Message from the Editorial Board

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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