Special Issue

Fatigue and Fracture Mechanics of Materials

Message from the Guest Editors

This Special Issue, entitled "Fatigue and Fracture Mechanics of Materials", is pleased to receive original research and review articles on the broad areas of the mechanics of fatigue and the fracture of solids, including metals, metallic alloys, ceramics, polymers, and composites. This Special Issue welcomes experimental, theoretical, and numerical/computational studies of the failure mechanisms and/or structureproperty relationship regarding damage/fracture and fatigue at various length scales. The articles are expected to mainly focus on, but not be limited to, lowcycle fatigue, high-cycle fatigue, creep fatigue, creepinduced intergranular/intragranular cavity formation, multistage fatigue mechanisms, fracture/damage mechanisms, experimental characterization of such mechanisms, associated theoretical/computational investigation, involved integrated multiscale modeling methodologies, structure-property relationship investigation, constitutive models and their validation, applied material modeling for practical boundary value problems, etc

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Deadline for manuscript submissions

closed (20 November 2024)



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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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