

## Special Issue

# Probabilistic Mechanical Fatigue and Fracture of Materials

### Message from the Guest Editors

We invite researchers to participate with relevant works that contribute to updating the state-of-the-art in this domain, through a Special Issue entitled “Probabilistic Mechanical Fatigue and Fracture of Materials”. Its scope encompasses methodologies that facilitate an objective material characterization, to advanced damage models that guarantee the transfer from experimental results to the design of real components. We expect to attract papers with some probabilistic background related to innovative experimental methodologies, theoretical and applied fracture and fatigue theories, advanced numerical models, and examples of real applications related to advanced materials. Nevertheless, other topics related to fracture and fatigue are also welcome.

#### Keywords

- Fatigue
- Fracture mechanics
- Phenomenological models
- Failure criterion
- Generalized driving force
- Elastic and plastic materials
- Probabilistic life prediction
- Environmental assisted fatigue

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2020)



## Materials

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## About the Journal

### 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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