

Special Issue

Deformation, Fatigue and Fracture of Materials

Message from the Guest Editor

Aim of this Special Issue is to provide an update to the state-of-the-art on these problems, showing a clear link between material micro-nano behavior and the behavior of a real structure. Multiscale approaches are usually employed to capture these features in a unified way. Recent advanced criteria for fracture and fatigue predictions are fully considered in this Special Issue, keeping in mind the introduction and use of new advanced materials as additive materials, functionally graded materials, and multifunctional materials.

Keywords

- local approaches
- fatigue assessment
- advanced design
- multiscale approach
- new materials

Guest Editor

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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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