Special Issue

Fatigue and Fracture of Metals and Alloys: Numerical and Experimental Study (2nd Volume)

Message from the Guest Editors

The success of the first part of the Special Issue: "Numerical–experimental studies of fatigue and cracking of metals and alloys" proves that the issues of fatigue and fracture mechanics are still an open matter and require further research. This fact encouraged us to create a second Special Issue under the same title that will further develop the problem of the behaviour of structural elements under the influence of loads that lead to their destruction. Fatigue and fracture can be analysed from different points of view. There is room here to study the structure of the material, influence of the environment, shape of the structural element, or type of load. Research can be conducted in the laboratory on real elements, but many analyses require a numerical approach that is often very advanced, thus requiring the creation of new tools. We invite everyone who works in the described area to present their latest findings that lead to a better understanding of the fracture and fatigue processes.

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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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