

Special Issue

Mechanical Properties and Fatigue Behavior of Composite Materials

Message from the Guest Editors

Composites are a class of materials widely used in various manufacturing sectors for customized applications. Nowadays, process technologies related to Industry 4.0 require an increasing knowledge of the properties of these materials and, in particular, of the correlation among the mechanical and fatigue behaviors of materials with their formulation. In fact, thanks to this material's knowledge, it is possible to easily implement new products with the aim of meeting, in the fastest way possible, new requirements. Therefore, this Special Issue is intended for the presentation of new ideas and experimental results that concern systematic investigations of the mechanical and fatigue properties of composite materials, carried out through mathematical, statistical, and/or simulation approaches. Areas of interest are related, but not limited to: traditional polymeric-based composites for automotive or sports, metallic and ceramic-based composites for high temperature applications and/or high chemical resistance, and bio-based or natural composites functionalized for agri-food, medical or textile applications in which mechanical or fatigue properties are relevant.

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Deadline for manuscript submissions

closed (20 June 2024)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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