Special Issue

Carbon Fibre Reinforced Plastics

Message from the Guest Editor

Composites reveal a mechanical behavior deeply different from that of conventional materials, such as metals, owing to their nature. More specifically, the considerable performance demands of some structural applications require the use of high resistance carbon fiber reinforced plastics (CFRP). The full characterization of the properties of anisotropic and inhomogeneous composite materials, for use in demanding structural applications, requires a wide range of mechanical tests, as well as numerical modeling, in order to have a precise idea of their mechanical behavior. This Special Issue will focus on mechanical characterization with both traditional and innovative techniques of CRFP materials produced using different kinds of manufacturing processes, and on their numerical and analytical models. Special attention will be given to innovative approaches for predicting mechanical responses during work conditions. For more information, please click the following link:
https://www.mdpi.com/journal/materials/special_issues/carbon_fiber_plastics

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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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