Special Issue

Mechanical Characterizations and Applications of Carbon Fiber Composites

Message from the Guest Editor

The present Special Issue focuses on recent developments in the characterization of nano-, micro-, meso-, and macro-level mechanical properties of such composites using experimental, analytical, and computational approaches and techniques. It also focuses on the novel, innovative applications of such composites in the abovementioned engineering areas and other similar areas. Research works on tensile, compressive, shear, fracture, fatigue, creep, impact, and damping properties of such composites, as well as on the durability and degradation due to temperature and moisture, will be covered in this Special Issue. Works on nanocomposites involving atomistic, molecular, and continuum mechanics computational modeling, experimental investigations, and hybrid approaches will also be covered. Static and dynamic applications for machine tools, machine elements, mechanical structures, aerospace structures, automobile structures and components, naval vessels, helicopter blades and rotors, infrastructure, rotating machinery, and similar practical components and structures will be of interest to the present Special Issue.

Guest Editor

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Deadline for manuscript submissions

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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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