Special Issue

Mechanical Characterization of FRP Composite Materials

Message from the Guest Editor

This Special Issue is aimed at soliciting contributions focused on characterizing the mechanical performance of FRP composite materials. The scope of papers includes studies that assess the general deformation response, damage evolution, and failure morphology of conventional and emerging FRP composite materials under various loading conditions (e.g., quasi-static, dynamic, fatigue, and impact). Multi-scale investigations of fracture toughness and damage mechanism evolution, as well as the assessment of manufacturing induced defects and their influence on material performance, are also welcome. Papers targeted at developing novel experimental techniques or non-destructive damage assessment methods for FRP composites will also be considered. Keywords

- characterization
- fiber-reinforced plastic composites
- mechanical properties
- damage and failure
- manufacturing induced defects
- non-destructive evaluation

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2022)

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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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