

Special Issue

Carbon Fiber Reinforced Polymers (2nd Edition)

Message from the Guest Editor

The current demand for lightweight and high-performance structures leads to increasing applications of carbon fiber reinforced polymers (CFRPs), made possible also by novel production methods, automation with repeatable quality, reduced cost of carbon fibers, out-of-autoclave processes like resin transfer molding and resin infusion technologies, re-use of waste fibers, development in preform technology, high-performance fast curing resins, etc. Moreover, the diffusion of multi-material design has driven the research towards efficient joining technologies of metals to carbon fiber-reinforced composites. Recently, nanofillers have been introduced into conventional carbon fiber-reinforced polymers to create multiscale or layered composites, which are characterized by enhanced structural and functional properties. This Special Issue aims to present recent advances in carbon fiber reinforced polymers, focusing on the emerging trends both in carbon fibers and matrix development and in composite manufacturing technologies. I kindly invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2025)



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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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