Special Issue

Advances in Carbon Fiber Reinforced Composites

Message from the Guest Editor

Carbon fiber-reinforced composites (CFRCs) can be used in all applications where light weight and high strength materials are required. The main load-bearing component of the CFRCs is the carbon fiber, owing to the high specific strength and light weight of CFs. However, the surface of CFs is chemically inert, making compatibility between CF surfaces and polymer matrixes a problem. Innovative strategies are being developed to modify the surfaces of CFs to make them rough and chemically reactive and to de-sign strong interfacial bonding between the CF surface and polymer matrix, leading to an huge increase in the usefulness of CFRCs.

The Special Issue, entitled Carbon fiber-reinforced composites (CFRCs), aims at the fusion of the vast amount of knowledge available in the scientific literature lasting over 50 years from 1968 to 2022, leading to a better vision and thorough understanding of the structure, composition, and properties of the interface of CFRCs through publishing original research papers and review articles on this subject. Researchers in the field are encouraged to enthusiastically contribute their results for publication in this Special Issue.

Guest Editor

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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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