Special Issue

Mechanical Properties, Structural Design and Applications of Carbon-Fiber Composites

Message from the Guest Editor

This Special Issue aims to explore and elucidate the evolving realm of carbon-fiber composites (CFCs) in relation to their mechanical properties, innovative structural designs, and expanding applications. Carbon-fiber composites have increasingly found their place in modern industry due to their unique combination of high strength, low weight, and durability. This Special Issue seeks contributions that highlight cutting-edge research, methodologies, and real-world applications of CFCs, offering a comprehensive understanding of the current state and future potential of carbon-fiber technology. **Topics of Interest**: Contributions may cover, but are not limited to, the following:

- Mechanical properties of carbon-fiber composites.
- Novel manufacturing processes and techniques.
- Real-world applications of CFCs, for example in the aerospace, automotive, energy, and construction industries.
- Impact of CFCs on sustainable and green technologies.
- Computational models and simulations related to CFCs.

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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