Special Issue

Mechanical Behavior and Functional Applications of Fiber-Reinforced Composite Materials and Structures

Message from the Guest Editors

Fiber-reinforced composite materials and structures are crucial in addressing modern engineering challenges across aerospace, automotive, energy, and healthcare fields. Their ability to deliver high strength-to-weight ratios, energy efficiency, and multifunctionality makes them indispensable for the development of next-generation technologies.

In this Special Issue, we will focus on the mechanical behavior and functional applications of fiber-reinforced composite materials and structures, aiming to bridge the gap between fundamental research and real-world applications. We encourage submissions of original research papers, short communications, and review articles. This Special Issue aims to cover the latest progress in this field and stimulate further academic interest to promote and benefit multidisciplinary scientific communities.

Guest Editors

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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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