Special Issue

Continuous Fiber-Reinforced Composite Materials: Processes, Structures and Properties

Message from the Guest Editors

Continuous fiber-reinforced composite materials (CFRCs) have attracted considerable attention across diverse industrial sectors, including aerospace and automotive, due to their outstanding mechanical properties, lightweight nature, and versatility. This Special Issue aims to present a comprehensive compilation of research focusing on the manufacturing processes, multiscale structures, and performance properties of CFRCs. Its scope encompasses, but is not limited to, studies on innovative fabrication techniques, testing of mechanical and functional properties, and microstructural characterization. Furthermore, we welcome contributions employing predictive modeling and simulation tools to explore, optimize, and design the process–structure–property relationships of CFRCs. Research on topics such as automated manufacturing, non-destructive evaluation, damage analysis, and multi-scale modeling frameworks is encouraged. The goal is to bridge fundamental research with industrial applications, emphasizing collaborative efforts to advance CFRC technology.

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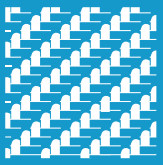

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