

Special Issue

Fiber-Reinforced Composites: Latest Advances and Interesting Research

Message from the Guest Editors

Under the global sustainability initiatives and the dual-carbon agenda, contemporary material innovation increasingly prioritizes three critical dimensions—multi-functionality, environmental compatibility, and intelligent responsiveness—while maintaining rigorous performance standards. Current Fiber-reinforced composites (FRCs) systems demonstrate diversified material architectures, each presenting unique advantages that enable tailored solutions for next-generation applications in aerospace and new energy vehicles.

This Special Issue seeks to consolidate cutting-edge research and comprehensive reviews addressing advanced fabrication techniques such as additive manufacturing, multiscale performance characterization methodologies, predictive theoretical modeling frameworks, interesting numerical simulation approaches, lifecycle assessment, etc. While polymer matrices remain predominant in FRC applications, novel composite systems incorporating ceramic or metallic matrices are also welcomed, but the development potential of composites composed with the selected matrix and fiber must be discussed in the manuscript.

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