# Special Issue

# The Mechanical Properties of Fiber Reinforced Composites

## Message from the Guest Editors

The mechanical properties of fiber-reinforced composites significantly impact their performance and applications. These composites consist of a matrix and embedded fibers, such as glass, carbon, or aramid. The interaction between the matrix and fibers determines key mechanical properties like strength, stiffness, toughness, fatigue resistance, impact resistance, durability, and dimensional stability. Optimizing these properties is vital for designing and manufacturing fiber-reinforced composites for diverse applications, including automotive, aerospace, sporting goods, and industrial uses. With their high strength, stiffness, and tailored properties, fiber-reinforced composites offer versatility across engineering fields. This Special Issue focuses on recent advancements in mechanical properties for structural applications, welcoming papers covering advanced testing methods, analysis approaches (such as experimental measurement techniques, artificial intelligence, and physics-based modeling), and data-driven methodologies.

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## Deadline for manuscript submissions

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## Editor-in-Chief

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