

Special Issue

Fibre-Reinforced Composite Structures

Message from the Guest Editor

This Special Issue highlights recent advances in the analysis, design, and application of fibre-reinforced polymer (FRP) and hybrid composite systems for civil and structural engineering. The Special Issue brings together experimental studies, numerical modelling, and performance-based design approaches, addressing strength, stiffness, durability, and serviceability. Emphasis is placed on key mechanisms such as bond and anchorage, cracking and damage evolution, fatigue and impact resistance, and long-term environmental effects (moisture, temperature, alkali exposure, and sustained loading). Contributions also explore sustainable and resilient infrastructure solutions, including lightweight retrofit systems, corrosion-free reinforcement, and optimised composite forms enabled by modern manufacturing and digital design workflows. By linking fundamental material behaviour with structural-scale performance and codification needs, this Special Issue aims to accelerate practical adoption of fibre-reinforced composite structures in bridges, buildings, transportation facilities, and other critical assets.

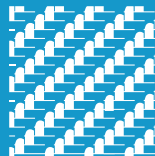
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Deadline for manuscript submissions

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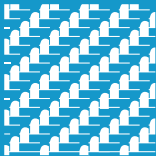
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