



## Fiber-Reinforced Polymer Composites and Their Applications

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### Message from the Guest Editors

Fiber-reinforced polymer (FRP) is widely used in structural repair and reinforcement as a construction material due to its advantageous properties such as its light weight, corrosion resistance, good flexibility, high tensile strength, environmentally friendly nature, etc. This Special Issue deals with various aspects of FRP as a construction and strengthening material, including the use of polymer composites in civil engineering, material science, and hydraulic engineering. The range of potential topics includes the composition, mechanical and micro-strengthening mechanisms, durability, and long-term performance characterization of fiber-reinforced polymer composites, as well as the use of fibers to toughen and strengthen cement-based composites, concrete, recycled concrete, high arch dam concrete, geopolymers concrete, etc. In addition, multi-scale research, meso-numerical simulation, novel reinforcement and repair methods, and applications in practical engineering of fiber-reinforced polymer composites are other potential topics. This issue also accepts state-of-the-art reviews on fiber-reinforced polymer composites in construction materials.





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## Editor-in-Chief

### Prof. Dr. Alexander Böker

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