

Special Issue

The Impact, Application and Sustainability of FRP Materials in Architecture and Civil Engineering

Message from the Guest Editors

The application of fiber-reinforced polymer (FRP) composites, as novel engineering solutions that can enhance the durability and sustainability of new constructions and rehabilitate existing structures, through their use as reinforcements in bridge decks, modular structures, formwork, and external reinforcements for strengthening and seismic upgrade, has attracted immense attention in recent decades. FRP composites are corrosion-resistant, lightweight, exhibit non-conductivity and high strength-to-weight ratio, and can be tailored to satisfy performance requirements. While the mechanical advantages of using FRP composites are widely reported, further research and testing methods are required for their application in building and infrastructure, due to the differences in material, processing, loading, and environment associated with the use FRP composites in civil engineering compared to, for example, aerospace and automotive.

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