



## Optimal Design of FRP Strengthened/Reinforced Construction Materials

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### Message from the Guest Editors

Dear Colleagues,

FRP composites have been developed into various products in recent decades due to their excellent corrosion resistance, designability, and high strength-to-weight ratio. FRP materials shine brightly in improving the structural behavior of existing structures and new structures.

This Special Issue aims to introduce the latest research progress and technological innovation of FRP-strengthened construction materials, and focuses on material innovations in FRPs, structural analysis, and novel reinforcement design methods. Research from experimental analyses and numerical simulations of strengthened structures is also welcomed, as well as the maintenance and renovation of existing structures.

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/buildings/special\\_issues/54H7ON437M](https://www.mdpi.com/journal/buildings/special_issues/54H7ON437M)

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## Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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