Special Issue

Application of Fiber-Reinforced Composite Materials in Building and Bridge Applications

Message from the Guest Editor

The topics of interest include, but are not limited to, FRP strengthening techniques for reinforced concrete and steel structures, innovative reinforcement and prestressing solutions using FRP, and performance of hybrid systems that integrate FRP with traditional materials. Contributions exploring long-term durability, structural behavior under extreme conditions, and novel design methodologies for FRP applications are particularly encouraged. We welcome original research articles, review papers, and case studies that provide valuable insights into the evolving role of FRP composites in the built environment. This Special Issue aims to serve as a platform for engineers, researchers, and industry professionals to exchange knowledge and advance the practical implementation of fiber-reinforced composite materials in modern infrastructure.

Guest Editor

Prof. Dr. Raafat El-Hacha
Department of Civil Engineering, University of Calgary, Calgary, AB T2N 1N4, Canada

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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About the Journal

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.

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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