



Advanced Composite Materials for Structure Strengthening and Resilience Improving

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Message from the Guest Editors

It is our honour to announce this Special Issue of *Buildings*, which will focus on Advanced Composite Materials for Structure Strengthening and Resilience Improving. This Special Issue aims to highlight recent scientific achievements in mechanics, technology, and analysis of composite materials and structural elements at an advanced level. Related topics include, but are not limited to:

- Mechanics of composite materials for structures strengthening;
- Design of resilience structures strengthening by composite materials;
- manufacturing technology of composite materials;
- experimental or numerical study of composite materials and devices;
- experimental or numerical study of structures strengthening by composite materials;
- Smart composites.





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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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