Special Issue

Low‐Impact Construction Materials and Resilient Structural Design for Sustainable Buildings

Message from the Guest Editor

This Issue will focus on advancing sustainability and resilience in building engineering. In recent decades, building engineering developed rapidly to meet the evolving functional demands of modern society. At the same time, the urgency for energy saving and emissions reduction in the construction industry has grown significantly. In response, low-impact construction materials and resilient structural designs have attracted increasing attention for their potential to improve the sustainability and resiliency of buildings. Recent studies on sustainable building practices have significantly advanced our understanding of building engineering, particularly in the areas of low-impact materials and resilient design. This Special Issue aims to provide a platform for presenting the advance and innovations in low-impact materials and structural design approaches that contribute to sustainable and resilient building practices. Contributions may address both conventional buildings and special structures, such as underground buildings. We invite original research articles, reviews, and case studies that align with the themes of this Special Issue.

Guest Editor

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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.

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