Special Issue

Healthy, Low-Carbon and Resilient Built Environments

Message from the Guest Editors

Faced with environmental issues such as global warming, our society requires buildings to be healthy and have low carbon emissions. Besides, when a disaster or extreme event happens, buildings should be energy efficient and provide sufficient protection to their occupants and operations. The relevant research may involve indoor and outdoor environments, air quality, building energy efficiency, building systems, distributed renewable energy, energy storage, demand response, grid interaction, intelligent building control, etc., emphasizing not only our knowledge and understanding but also practical technologies and intelligent management for buildings. This Special Issue of Buildings, titled “Healthy, Low-Carbon, and Resilient Built Environments”, welcomes high-quality original contributions and high-impact works related to the above-stated topics. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/VD6UF1LP61

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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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