

Climate Resilient Buildings

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Message from the Guest Editor

This Special Issue focuses on contributions related to climate resilient buildings, with an emphasis on aspects related to estimating the expected longevity, or loss thereof, of building elements under a changing climate, in consideration of the spatial and temporal variation in climate loads. The long-term performance of building elements, such as wall and roof assemblies, fenestration components and related building products, is directly related to the loads to which these elements are subjected over time. Hence, contributions on the characterisation of both historical, as well as projected loads—i.e., loads that may arise from the effects of climate change—are particularly relevant to this issue. [...]

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

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Special Issue

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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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