

Green Building Design and Construction for a Sustainable Future

Guest Editors:

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Message from the Guest Editors

The green building concept has been around for decades, aiming to reduce the environmental impacts of buildings over their life cycle. Different green building assessment tools have been developed, such as LEED, BREEAM, BEAM Plus, etc., and many buildings have been labelled as green buildings worldwide. However, the number of green buildings is still a small percentage of the existing building stocks. It becomes necessary to further promote the green concept in future building design and construction by involving different stakeholders. Moreover, the green retrofitting of existing buildings will provide important contributions to achieve the net zero emission goal. New technologies and materials will also bring disruptions for the future development of green buildings. To have a clear understanding of the recent development in green building design and construction and future directions, this Special Issue seeks outstanding research studies, reviews and good practices on green building design and construction that lead to sustainable development in the built environment.



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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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