

## New Trends in the Green Building

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### Message from the Guest Editors

As Elon Musk famously said, “I don't waste time talking about lofty matters. I spend my time-solving engineering and manufacturing problems.” Solving engineering problems in buildings is a highly serious task. Modern environmental problems are caused by increased energy consumption and the urban heat island effect. New architectural designs in urban spaces could solve this problem in megacities. Green buildings and other energy-efficient objects in real estate are prioritized in urban city centers. This Special Issue will focus on new architectural designs and modern technologies in urban spaces and green buildings. Original research and reviews covering structural modeling, technology assessment, design methodology, material characterization for innovative use in architectural design, performance-based design, and real estate assessment are welcome. Experimental results from tests, modeling, and analysis, as well as the use of artificial intelligence in building technologies, are crucial.

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

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# Special Issue

## Editor-in-Chief

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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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