Special Issue

Living Walls in Green Buildings

Message from the Guest Editor

With the acceleration in urbanization, high-density building has become the main theme of urban development; however, the environmental problems derived from urbanization have brought many negative impacts on the production and life of urban residents, especially the scarcity of urban greening resources. The indoor thermal environment and air quality are two critical factors that affect the physical and mental health as well as work performance of residents. The practice of introducing plants into indoor spaces to decorate and beautify the indoor environment has a long history, and the plants introduced into the indoor environment could not only improve the indoor thermal comfort and air quality through their repair and purification capabilities but could also positively impact human physiology and psychology. In addition, the introduction of living wall systems into indoor environments could not only overcome the low space utilization rate of traditional horizontal greening but also improve the efficiency of plants in purifying indoor air by developing active living wall systems.

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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