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Quantification of Green Roof Benefits and the Implementation into Urban Politics

Guest Editors:

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British Columbia Institute of Technology

Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editors

In times of climate change, it is important to find solutions to adapt or to mitigate the effects of higher temperatures and increasing stronger rain events.

The loss of vegetation structures in cities causes a loss of biodiversity in cities.

Roofs are a space resource that bring back functional vegetation into cities.

Knowledge about green roofs has increased significantly in the last 30 years. These publications show that this technology is fit for all climate zones and is possible in nearly all types of buildings.

Green roofs are one prominent key element in the list of green infrastructure solutions.

To convince decision makers in cites to integrate more green roofs in the future, it is best to give countable numbers of these ecological benefits. It is also important to learn from case studies.

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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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