



Green Roofs, Green Walls, Urban Greenhouses and Hi-Tech City Landscape for Sustainability

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Message from the Guest Editors

Green plants have always been a design element in the architecture of buildings and the urban decoration of cities, but only recently has their contribution been revealed as very effective in reducing negative environmental impacts and energy costs due to air conditioning of buildings, enabling the utilization of spaces and surfaces otherwise not exploited in cities. The plant phenomena of photosynthesis and evapotranspiration are particularly useful during the hot seasons to reduce electricity consumption and CO₂ emissions due to the air conditioning of buildings since plant-covered surfaces provide shading and shielding of buildings. Thus, plant systems represent a natural solution to achieve the goals for energy reduction and environmental regeneration of buildings, particularly in cities. This Special Issue aims to involve scientists and experts from various research fields on the use of vegetation to promote energy saving, accelerate the decarbonization of cities, as well as reduce air pollution, thus transforming cities into sustainable and resilient ecosystems.





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Message from the Editor-in-Chief

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