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Thermal and Energy Performance of Skyrise Greenery in High-Density Cities

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editors

This Special Issue aims to provide a more focused platform for a selection of papers introducing the thermal and energy performance of diverse, innovative vertical greenery design at different scales, as well as the latest research progress about its effect on improving the ecological and economic benefits. Articles related to (but not limited to) the following topics are encouraged for submission:

1. Thermal and energy performance of a vertical greenery system or its variant in different climate zones, as well as the effect of plant species and soil.
2. The heat transfer mechanism of drainage structure and materials and its impact on the thermal performance of vertical greenery.
3. The interaction mechanism between a vertical greenery system and renewable energy system and its effect on thermal performance and energy production.
4. The effect of vertical greenery design strategy on urban microclimate at the local scale.
5. The microclimate of a vertical farming system as well as its influencing factors and optimization methods.
6. The economic and ecological impact of thermal performance of a vertical greenery system.

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Editor-in-Chief

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Message from the Editor-in-Chief

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