

Special Issue

Sustainability Challenges in Urban Heat Island Mitigation Strategies

Message from the Guest Editors

Urban heat islands (UHIs) have been evident in many cities. Existing evidence indicates that UHIs can cause numerous negative impacts on air quality, outdoor thermal comforts, public health, economic productivity, and energy consumption, and thereby significantly deteriorate the urban environment. Extensive strategies have been developed to mitigate UHIs, such as urban greenery, cool materials, water techniques, and optimised urban morphology. However, it is still challenging to prioritise these strategies to support UHI mitigation as mitigation performances vary significantly with climatic and urban contexts. The application of such mitigation strategies is also affected by the policy, technical, social, and economic factors. This Special Issue aims to provide a platform to discuss challenges, opportunities, and solutions on the characterisation, assessment, application, and decision making of UHI mitigation strategies. The platform will support evidence-based urban governance for UHI mitigation and well-informed urban planning and design.

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