

## Special Issue

# Thermal Mitigation Effects of Green and Blue Infrastructure and Urban Sustainability from an Interdisciplinary Perspective

### Message from the Guest Editors

This Special Issue provides an interdisciplinary perspective on how urban green and blue (G/B) infrastructure strategically mitigates the Urban Heat Island (UHI) effect, optimizes thermal comfort, and enhances urban residents' well-being. As global urbanization accelerates and climate change worsens, heat waves have become more frequent, intense, and prolonged, pushing heat-related mortality to an urgent public health crisis. UHIs—marked by urban areas being significantly warmer than surrounding rural regions—further amplify heat exposure risks for city dwellers. G/B elements (vegetation, water bodies G/B also enhances building energy efficiency by cutting cooling loads, supporting climate adaptation, reducing operational costs, and strengthening urban energy resilience. This Issue bridges theory and practice across climate science, public health, urban design, ecosystems, infrastructure engineering, and adaptation strategies, focusing on actionable, cross-disciplinary research.

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