Special Issue

Global and Local Climate Change: Building and Urban Mitigation Technologies Under Changing Climates

Message from the Guest Editors

Climate change is driving extreme weather events, posing significant threats to urban resilience and the well-being of city dwellers. Moreover, as cities continue to expand and densify, local climate changes caused by the ambient urban heat island (UHI) effect can worsen these risks, increasing urban vulnerability. In this context, the built and urban environment plays a fundamental role in safeguarding both communities and cities against these escalating climate threats. This Special Issue welcomes both original research articles and review papers covering a broad range of research topics related to local climate change and mitigation strategies. Potential topics include, but are not limited to, green roofs, green walls, retroreflective materials, cool walls, cool roofs, cool pavements, evaporative strategies, urban NbS, UHI and/or building consumption assessment, and thermochromic materials.

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