



Microclimate Development in Urban Spaces

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Message from the Guest Editors

Dear colleagues,

The current level of population growth, together with global or regional warming, has caused important changes in the different land covers and uses and a considerable increase in temperatures, especially in urban spaces. Urban areas are more vulnerable to climate change due to the additive effect of the Urban Heat Island (UHI) phenomenon that makes cities warmer than surrounding rural sites. Added to this circumstance is that atmospheric emissions and extreme climate phenomena (heat waves, extreme temperatures) have increased significantly, while at the same time they are affecting environmental quality and impacting the health of the population. Urban forests were considered the important part of urban eco-system, which can reduce urban high temperatures and heatwaves through shading and evapotranspiration. It is estimated that, in the next 25 years, 70% of the world's population will be located in these areas, which is why their analysis and study is of great importance in order to establish measures that will improve the resilience of these areas against the effects of the climate change.





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