



Advances on the Influence of Vegetation and Forest on Urban Air Quality and Thermal Comfort

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Deadline for manuscript
submissions:
closed (14 July 2022)

Message from the Guest Editors

The interaction of the atmosphere with urban surfaces induces complex flow patterns and a reduction in ventilation on the streets. This fact linked with pollutant emission gives rise to air quality problems in cities. In addition, the thermal properties of urban materials often cause elevated air temperature that leads to thermal discomfort for people. To mitigate these problems, nature-based solutions are widely used, and more knowledge about the complex effects of different types of green infrastructures is needed to design effective strategies for renaturing urban environments.

So, we invite articles relating to the impact of urban vegetation on air quality and local climate in urban environments. These contributions will include modeling studies at micro- and meso-scale and experimental works from field and laboratory experiments. Urban green infrastructures will be investigated in relation to their effects on pollutant concentration and/or on local climate and thermal comfort. In addition, works on new parameterization of the effects on urban vegetation are also welcomed. We also invite review papers focused on the current knowledge and future studies on this topic.





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