Special Issue

Urban Forest and Urban Microclimate

Message from the Guest Editors

Urban green addresses major urban challenges such as improving quality of life, preserving biodiversity, and adaptation to climate change. Trees as one of the main urban green components, enhance climate resilience of urban areas due to their capacity to moderate the microclimate, through cooling function which depends on evapotranspiration and shading capacity. Meanwhile, tree growth and tree vitality, which strongly affect the provision of ecosystem services, are influenced by control factors: the surrounding microclimate, built urban structure, and tree species characteristics. We encourage topics from all fields, including experimental studies, monitoring approaches, or modeling studies, to contribute to this special issue in order to promote knowledge and adaptation strategies for improving the urban microclimate and for mitigating the negative impacts of climate change. Submissions concerning patterns and processes of microclimatic regulation through urban trees, dynamics and functions of urban trees, and the effects of micro-climate and climate change on urban tree growth and ecosystem services as well as studies on the growth patterns of urban trees.

Guest Editors

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Dr. Mohammad A Rahman

Dr. Astrid Reischl

Deadline for manuscript submissions

closed (24 February 2023)

MDPI

About the Journal

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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