

Special Issue

Greening Our Cities: Urban Forests as a Nature-Based Solution for Air Pollution and Urban Heat Stress

Message from the Guest Editors

The need to reduce air pollution and mitigate climate change has been recognized over recent decades through measures implemented at both the national and international levels. It is well known that urban greenery improves human well-being by contributing to many factors, such as improved air quality, microclimate, psychological health, or noise control. This Special Issue aims to gather high-quality scientific contributions from leading experts in the field, with the aim of highlighting innovative advancements in the roles of urban and peri-urban forests in modulating air quality and regulating local microclimatic conditions. Studies focusing on species-specific pollutant removal capacities, underlying mechanisms, seasonal variations in the effectiveness of urban vegetation, and the interactions between urban greenery, atmospheric chemistry, and local climate are particularly encouraged. Additionally, we welcome innovative methodologies, including remote sensing, intensive ground-based measurements, and machine learning applications for predictive modeling, pattern recognition, and data integration across spatial and temporal scales.

Guest Editors

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Message from the Editor-in-Chief

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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