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The Response of Trees to Air Pollution in Urban Forests

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Message from the Guest Editors

Dear Colleagues,

The urbanization rate in recent decades, combined with global climate change, has led to dynamic changes in the environmental factors which pose new challenges for urban vegetation. Heat island, higher albedo of buildings' surfaces, lower moisture, and significant pollution of both air and soil represent a small number of all negative effects of urban landscape to green infrastructure. To address these problems and to build a sustainable urban green infrastructure, the first step should be related to studying the reaction specificity and the tolerance to air pollution of the urban forests in the actual cities' conditions, and then performing a revision and revaluation of the adaptation ability of the newly planted trees to the degraded urban environment.

We encourage studies from all fields related to the effects of air pollution of urban trees to contribute to this Special Issue. Potential topics include but are not limited to: Oxidative stress; Dose–response mechanisms; Impact on plant physiology; Impact on trees diversity; Impact on trees development; Leaf threats; Biochemical markers; Molecular traits.



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Special Issue



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