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# INFLUENCE OF TREES ON THE OUTDOOR THERMAL ENVIRONMENT IN SUBTROPICAL AREAS: AN EXPERIMENTAL STUDY IN GUANG ZHOU, CHINA

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## Highlights

- Data on the impact of four trees' species on the UHI are obtained.
- Three physiological and seven microclimatic parameters are studied.
- Differences in cooling performance among the four trees' species are assessed.
- Ficus microcarpa has the best cooling performance (reduced PET by 32.4°C).
- Tree planting implications are discussed from a microclimatic perspective.

## Abstract

Tree morphology and characteristics are quite different among different tree species, leading to large differences in cooling performance across tree species, particularly across different climatic regions. To obtain microclimatic characteristics and data of the influence of common subtropical tree species on the outdoor thermal environment, this study investigates, with field measurements, three physiological

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