

Impact of Urban Green Spaces on Air Quality

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Abstract. Urban green spaces play a crucial role in improving air quality by acting as natural air filters. This study examines the effectiveness of trees and vegetation in reducing air pollutants, including particulate matter and nitrogen dioxide, across various urban environments. The research highlights the importance of strategic planning and management of green spaces to maximize their air purification benefits. By analyzing data from multiple cities, the study offers insights into the relationship between green space distribution and air quality improvement.

Keywords: urban green spaces, air quality, pollution reduction, sustainable urban planning, vegetation

Introduction

The rapid urbanization witnessed globally has led to increased air pollution levels, significantly impacting public health. Urban green spaces, such as parks and gardens, are increasingly recognized for their potential to improve air quality. These green areas act as natural air filters, absorbing pollutants and providing cleaner air to breathe. The study explores the role of urban green spaces in mitigating air pollution, focusing on their capacity to absorb pollutants like particulate matter and nitrogen dioxide. By evaluating different urban settings, the research aims to identify patterns and strategies that enhance the effectiveness of green spaces in air quality improvement. This paper contributes to the broader understanding of sustainable urban planning and the integration of green spaces for healthier urban environments.

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References

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