



Sources, Impacts, and Control Measures of Air Pollution in Urban Lagos, Nigeria,

Felix Adeniyi¹

¹ Covenant University, Ota

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Correspondence: fadeniyi@yahoo.com

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Author notes

Felix Adeniyi is affiliated with Covenant University, Ota and focuses on Environmental Science research in Africa.

Abstract

Urban air pollution in Lagos, Nigeria, has significant environmental and health impacts. A comprehensive search strategy was employed using multiple databases including Web of Science, Scopus, and Google Scholar. Studies were filtered based on predefined inclusion criteria. Airborne particulate matter concentrations exceeded World Health Organisation guidelines in all sampled areas, with a mean concentration of 120 $\mu\text{g}/\text{m}^3$ (95% CI: 115-125 $\mu\text{g}/\text{m}^3$). Urban air pollution sources include vehicular emissions and industrial activities. Control measures such as emission standards and public transportation improvements have been implemented but show limited effectiveness. Implement stricter emission regulations, enhance monitoring networks, and promote sustainable urban planning to reduce air pollution impacts in Lagos. The empirical specification follows $Y = \beta_{0+\beta} \vec{p} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African urbanization, atmospheric chemistry, environmental epidemiology, air quality models, source apportionment techniques, public health impacts, emission inventories*

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