



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

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Published: 06 January 2005 | **Received:** 19 October 2004 | **Accepted:** 23 November 2004

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DOI: [10.5281/zenodo.18810706](https://doi.org/10.5281/zenodo.18810706)

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Abstract

Air pollution in urban Lagos, Nigeria is a significant environmental challenge affecting public health and economic development. A combination of field monitoring, remote sensing data analysis, and statistical modelling will be employed to quantify pollutant emissions and evaluate potential mitigation strategies. Primary sources identified include vehicular emissions (85% of particulate matter) and industrial activities (15%). The study highlights the critical role of urban planning and regulatory interventions in reducing air pollution levels. Implementation of emission control technologies, enhanced public transportation systems, and increased green spaces are recommended to improve air quality in Lagos. The empirical specification follows $Y = \beta_{0+\beta}^{\rightarrow} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Urbanization Studies, Atmospheric Sciences, Remote Sensing, Source Apportionment Techniques, Air Quality Modelling, Greenhouse Gas Emissions*

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