

Particle Pollution Levels on Cyclists Lanes from Bucharest

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Abstract:

Urban particulate air pollution poses a serious threat to public health, particularly for those who enjoy outdoor sports like cycling. Because they are so close to traffic, which can expel pollutants like dust, soot, and vehicle emissions into the atmosphere, cyclists in urban areas are frequently subjected to elevated levels of particulate matter (PM). Numerous studies have been carried out to evaluate particulate exposure along city bike lanes, with an emphasis on the concentration of fine particles such as PM_{2.5} and PM₁₀. The health of cyclists is at risk from these particles, which have the ability to enter the respiratory system deeply and cause cardiovascular and respiratory problems. Additionally, studies look at things like route choice, traffic volume, and how cycling speed affects exposure to these pollutants. Understanding the dynamics of particulate pollution in cycling environments helps policymakers and urban planners create safer and cleaner routes that minimize air pollution-related health risks while promoting cycling as a sustainable form of transportation.

Keywords:

Particulate Pollution, PM_{2.5}, PM₁₀.