Special Issue

Urban Air Pollution Exposure and Related Diseases

Message from the Guest Editors

Exposure to air pollution introduces systematic inflammation and oxidative stress and can lead to a complex cascade of dysfunction in multiple organ systems, including cardiopulmonary diseases, diabetes, and more recently dementia and mental health problems. Urban areas are particularly prone to high concentrations of air pollution, high human exposure of air pollution, and more hazardous of pollutant components, due to built environment characteristics, high population density, and anthropogenic activities that generate air pollution.

The aim of this Special Issue is to elucidate the impacts of air pollution exposure on health in urban areas. Relevant current issues include but are not limited to methods for estimating air pollution exposures, assessment of the impacts of mixtures of air pollution on health, the impacts of policies to mitigate air pollution levels on health outcomes, and health effects of air pollution across the lifespan.

- Low- and middle-income countries
- PM components and sources
- Exposure assessment model
- Assessment of health benefits of air pollution reduction policies

Guest Editors

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Deadline for manuscript submissions

closed (25 March 2022)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/95948

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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