Special Issue

Air Quality in Metropolitan Areas and Megacities

Message from the Guest Editors

Air pollution is the world's single greatest environmental risk to health. Some 6.5 million people across the world die prematurely every year from exposure to outdoor and indoor air pollution, and nine out of ten people breathe outdoor air polluted beyond acceptable WHO guidelines levels. Megacities (metropolitan areas with populations over 10 million) present a major global environmental challenge. Rapid population growth, unsustainable urban development, and increased energy demand by transportation, industrial, commercial, and residential activities, have led to large amounts of emissions to the atmosphere that subject the residents to the health risks associated with harmful pollutants, and impose heavy economic and social costs. The aim of this Special Issue is to present original research articles and reviews in assessing air pollution in metropolitan areas and megacities, including both experimental and monitoring studies and mathematical/numerical modeling studies. Topics to be covered include gases pollutants and urban aerosol observations, including particulate matter chemical characterization and human exposure assessment.

Guest Editors

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Deadline for manuscript submissions

closed (26 July 2024)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/136464

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About the Journal

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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