



Urban Air Quality Modelling

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editor

Urban air pollution has become the leading-order environmental risk for human health. As estimated by the World Health Organization (WHO), there are about 4.2 million annual premature deaths attributed to ambient air pollution. The WHO has updated its Air Quality Guidelines in September 2021, reflecting the fact that even exposure to lower levels of air pollutant can affect human health. It is important to better understand sources and processes of air pollutants and to develop effective clean air policies to reduce air pollution levels in the atmosphere.

High-resolution air quality modeling can simulate combined effects of emission sources, chemical and physical processes. As air quality modeling has predictive capability, it can be used to develop effective policies for clean air in urban environments.

We call for papers on the modeling of physicochemical processes, improved understanding of air quality dispersion, source apportionment, quantification of the impacts of air pollution control policies (or co-benefits of Net Zero policies) on air pollution levels, at a variety of scales ranging from street canyon to neighborhood and city scales.





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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!

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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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