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Atmospheric Pollutants Dispersion

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Deadline for manuscript submissions:
closed (28 July 2022)

Message from the Guest Editors

The development of the urbanization process may affect atmosphere pollution, as urban constructions change natural geomorphologic conditions. Dispersion of toxic gases due to natural or industrial accidents may lead to potentially dreadful consequences. Therefore, measuring the ventilation rate is crucial to ensuring the control of emission of pollutants in households as well as buildings in rural areas such as greenhouses or animal houses. To prevent the effects of uncontrolled emission of pollutants, different approaches have been introduced. For instance, mathematical models have been developed for air quality/condition assessment. Additionally, to assist in decision making and planning of the placement of hazardous zones, computational tools are applied. Furthermore, simulation using computational fluid dynamics (CFD) techniques can provide detailed data on the prediction and visualization of spatial dispersion. This Special Issue is addressed at research studies focused on different aspects of air pollution and its treatment in developing countries.

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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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