



Advances in Integrated Air Quality Management: Emissions, Monitoring, Modelling (2nd Volume)

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Message from the Guest Editors

Air quality is monitored at the surface through ground-based monitors, official networks, low-cost sensors and, recently, cheap and easy-to-use sensors by citizens. Monitoring aims to identify pollution sources, air quality, compliance with ambient air quality standards, exposure and impact from other parameters. Current research focuses on the study of intra-urban, local, regional and intercontinental transport of air pollutants. However, there is need for additional data on air pollution, both spatially and temporally, by including satellite data, synoptic information, visualization to ground-based air quality data modeling, advanced statistical relations to forecast air quality, new emissions sources and new pollutants.

This proposal aims to gather research papers focused on methodologies based on emission inventories, classical and novel methodologies, remote and in situ experimental observations, meteorological and climate parameters that affect air pollution, application of chemical transport and/or development of statistical models for forecasting air pollution levels and assisting the monitoring and mapping of air pollution close to major sources or in greater areas.





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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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