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The Role of Low-Cost Air Pollution Sensors in Urban Air Quality, Source Apportionment, and Health Exposure

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Deadline for manuscript submissions:
closed (15 May 2022)

Message from the Guest Editors

This Special Issue hopes to discuss urban air pollution, source emissions, source apportionment, and its impact on health using low-cost sensors in urban cities with a synergy of field-based and remote sensing observations and modelling. We are interested in articles based on low-cost air pollution sensors, development of network systems, laboratory and field evaluation, and modelling using machine learning technique where the results show scientific novelty. We would also like to cover the association of air pollutants and health exposure data.

We invite authors to contribute to the following topics:

- Air pollution and public health in urban cities using low-cost sensors;
- Development and field evaluation of low-cost sensors of PM, gases, VOC, and radicals;
- Development low-cost sensor network in cities for helping smart cities and environmental sustainability;
- Low-cost sensors and satellite observation, source apportionment, and chemistry between PM and gases;
- Indoor air quality measurement and development of indoor sensors.

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Guest Editors

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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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