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Advanced Technologies in Air Science: Monitoring, Analyzing, Modeling, and Implementation

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Deadline for manuscript submissions:
closed (20 October 2021)

Message from the Guest Editors

With technology development and the subsequent air pollution and health effects, ambient air quality has received more attention in the past 20 years from all aspects. In this context, this special issue is initiated to cover the following research aspects:

- Evaluation of new air quality sensors for indoor and outdoor air quality monitoring;
- Characteristics of emerging air pollutants (e.g., PFAS) under various environments;
- Air quality modeling in combination with machine learning;
- Adverse health effects of air pollutants in ambient and built environment;
- Interventions and strategies to reduce health risks of outdoor air pollutant exposures;
- Emerging air cleaning technologies for air pollutant treatment and remediation;
- Advanced ventilation design and operation strategies to improve IAQ;
- Building features and occupant behaviour on IAQ;
- Impacts of COVID-19 pandemic on indoor and outdoor air quality;
- Effective ventilation infection control under the COVID-19 pandemic;
- Future IAQ trends under climate change and energy conservation in buildings.

Manuscripts to address challenging future research for Air Science are invited for submission to this Special Issue.

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Special Issue

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Editor-in-Chief

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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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