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Aerosols in Residential, School, and Vehicle Environments

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Deadline for manuscript submissions:
closed (30 July 2022)

Message from the Guest Editors

The purpose of this Special Issue is to collect research data 1) to clarify the profiles of aerosols in residential, school, and vehicle environments; 2) to identify the improvements and limitations of applying multiple aerosol purification and detection methods in these environments. Both experimental and modeling studies are welcome. We seek a comprehensive set of studies that solicit up-to-date research from the above aspects. Potential topics include (but are not limited to):

- Reviews of aerosol studies for residential/school/vehicle environments, including monitoring methods, emission profiles, physical-chemical-optical properties, and health impacts.
- Field characterization of aerosols and relevant properties in residential/school/vehicle environments, with or without improving methods.
- The relationship between indoor and outdoor aerosols for residential/school/vehicle environments.
- Laboratory/field/modelling studies on the aerosol purification/detection methods for residential/school/vehicle environments.
- Modeling studies that address the air quality and health impacts of aerosols in residential/school/vehicle environments.

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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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