



Ambient Aerosol Measurements in Different Environments

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Message from the Guest Editors

PM in the atmosphere has diverse natural and anthropogenic sources and is a complex, heterogeneous mixture. Its size and chemical composition can change in time and space, depending on emission sources and atmospheric and meteorological conditions. Depending on the environment in question, aerosol chemical composition, size, shape and vertical distribution may vary considerably. Therefore the physicochemical characterization of aerosol in different types of environments is of utmost importance, contributing to air quality, public health and the environment.

For this Special Issue, we aim to compile high-quality research and provide the community a valuable resource on the study of ambient aerosol in different environments. Such contributions may contain recent development and application of novel instrumentation in the field. Alternatively, authors can contribute manuscripts that focus on specific measurement techniques used at different sites for monitoring purposes and/or during intensive measurement campaigns. Finally, remote sensing, in-situ as well as modelling studies vs. ambient measurements comparisons are also welcome contributions to this Special Issue.





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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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