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Techniques for Ultrafine Aerosols Sampling and Measurement: Experiment and Modelling

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

The sampling and measurement of airborne nanoparticles is of significance for the evaluation of particle characteristics in ambient air or workplaces. Based on propagation, proper particle sampling and measurement is important to help to identify ultrafine aerosol sources. Therefore, Exploring the characterization of ultrafine aerosols is needed for robust assessment, quantification, and attribution of nanoparticles produced by various activities.<false,>Our purpose is to present the latest experimental and modeling results in the sampling and measurement of ultrafine aerosols. Submissions are encouraged to address discrepancies and impact assessments due to ultrafine aerosol sampling and measurement techniques, as well as correlations between source attribution and quantification. These include the use of continuous or manual instruments to measure ultrafine aerosol concentration and particle size distribution. It may also involve modeling calculations for ultrafine particle transport or deposition in components of various metrology instruments, discussions of recent advances in the development of ultrafine aerosol sampling and measurement methods.

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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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