Special Issue

Carbonaceous Aerosol

Message from the Guest Editor

This Special Issue of *Atmosphere* aims to present recent laboratory, field, or computational studies of carbonaceous aerosols, with a specific emphasis on developments and achievements in metrology. Carbonaceous aerosols, broadly defined, are any atmospherically relevant aerosol that is carbon-based and not biogenic in origin. These particles possess a wide range of chemistries (organic to elemental), sizes (nanometers to tens of micrometers) and morphologies (spherical to lacey or compacted aggregates with and without coatings) that impact radiative forcing, the hydrological cycle, and human health. The nuances to these complexities are only starting to be understood, as a direct result of advances in aerosol metrology. Submitted articles should address carbonaceous aerosols, with an emphasis on aerosol metrology. This emphasis can take the form of novel instrumentation; methods or materials development for instrument inter-comparison, calibration, or validation; novel data analysis methods that provide additional insights into aerosol processes; or computational studies that validate observations or measurements.

Guest Editor

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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!

Editor-in-Chief

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