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# Measurement Techniques and Characteristics of Carbonaceous Aerosols

Guest Editor:

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## Message from the Guest Editor

Carbonaceous particles are an important component of atmospheric matter, which include black carbon, brown carbon, and organic carbon. The effects of carbonaceous particles on climate, air quality, and human health are determined by their concentration and physicochemical properties. The physicochemical properties of atmospheric carbonaceous particles vary with different emission sources and atmospheric processes. It is worth noting that there are still uncertainties regarding the impact of carbonaceous particles on atmosphere due to the complexity of their characteristics. This highlights the need for a comprehensive understanding of the physicochemical properties of carbonaceous particles in atmospheric science. Although advanced techniques have been developed which focus on the concentration and physicochemical properties of carbonaceous particles, there are still multitudinous complex issues that need to be settled. Therefore, atmospheric science requires new and insightful studies to better understand carbonaceous particles via conducting theoretical analyses, laboratory experiments, and field observations.

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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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