



Carbonaceous Aerosols Association in Atmosphere (CA3)

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Message from the Guest Editors

Dear Colleagues,

Carbonaceous aerosols have received significant scientific interest due to their crucial impacts on climate and human health. Carbonaceous aerosols mainly consist of organic carbon (OC) and elemental carbon (EC), which are commonly referred to as black carbon (BC/rBC/EC) and brown carbon (BrC). Light-absorbing carbonaceous aerosol (BC and BrC) is one of the key absorbing materials after carbon dioxide (CO₂) in the atmosphere and the most important radiative forcing factor to the Earth's climate. In recent decades, carbonaceous aerosols have mainly been emitted from anthropogenic combustion (e.g., industrial emissions, road transport, domestic heating) and are of significant concern at both the local and global scales.

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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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