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Atmospheric Carbonaceous Aerosols

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Deadline for manuscript submissions:
closed (10 April 2020)

Message from the Guest Editors

Dear Colleagues,

Carbonaceous aerosols have increasingly drawn scientific attention for their significant adverse climate and health effects. A comprehensive and predictive understanding of the impacts of carbonaceous aerosols on regional and global scales requires the quantification of their chemical composition and associated physical and optical properties. Furthermore, understanding the dynamics and transformation of carbonaceous particles is essential and needs wide-ranging research. In this Special Issue, we invite submissions of research papers within the topic of carbonaceous particles in the atmosphere, addressing the following perspectives:

- Black/elemental carbon;
- SOA formation and aging;
- Chemical composition and carbon nanostructure;
- Brown carbon and refractory organics;
- Source apportionment and emission inventories;
- Air quality and modeling studies.

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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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