



Atmospheric Particle Pollution and Interactions with Meteorological Factors

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Message from the Guest Editor

Air pollution episodes are usually the result of heavy anthropogenic emissions and unfavorable meteorological conditions. Given the fact that anthropogenic emissions have decreased substantially globally, unfavorable meteorological conditions have become a key factor, or even a direct trigger, for the emergence of air pollution episodes.

Impact factors of atmospheric particle pollution are not limited to anthropogenic emissions, but also include temperature, relative humidity, wind in both horizontal and vertical extents and their diurnal variations, the development of the planetary boundary layer, climate change, and some extreme meteorological events.

Therefore, an indepth understanding of the interactions between atmospheric particles and meteorological factors is needed to develop better atmospheric pollution control measures. Studies that illuminate the physical and chemical mechanisms of the formation of atmospheric particle pollution and feedback effects are especially welcome. Long-time statistical and modeling analyses of the interactions between atmospheric particles and climate change are also welcome.





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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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