



Atmospheric Aerosols in North America

Guest Editor:

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Message from the Guest Editor

Atmospheric aerosols affect human health, visibility and climate. Anthropogenic and biogenic emissions are precursors to the production of particulate matter and secondary organic aerosol while some aerosols (e.g., windblown dust) are produced by physical processes. This Special Issue is devoted to papers presenting new field measurements, data analysis, modeling and laboratory research on atmospheric aerosols and their precursors in North America. Papers on the topics of the physics and chemistry of aerosol formation, single particles, local-urban effects of aerosols on air quality, studies conducted over regional and hemispheric scales on the effects of aerosols on visibility and climate are welcome. Authors are especially encouraged to submit papers on new emerging technologies for aerosol measurements and modeling that improve agreement between model simulations and field observations. The new emerging technologies for modeling include machine learning and other methods to better represent aerosols in chemical transport models. Finally, papers involving applications of aerosol models and field measurement studies for health and regulatory assessments are 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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