Special Issue

Measurements of Physico-Chemical Properties of Atmospheric Aerosols and Their Impacts in Air Pollution and Climate

Message from the Guest Editors

Our Special Issue aims at filling the data pool of physical-chemical properties of aerosols by most recent development and discoveries and addressing to improve our understanding and quantify the roles of aerosols on weather/climate. Relevant topics include (1) aerosol microphysical and chemical properties investigated both by bulk and single-particle approaches, e.g., size, morphology, mixing/phase state, chemical composition, hygroscopicity, volatility, refractive index, etc., and their changes during atmospheric evolution (2) Relationships of these aerosol properties with air quality, radiation, clouds/fogs, precipitation, extreme weather like heat waves, and large-scale atmospheric circulation and (3) Roles of the interactions of aerosol physical and chemical properties and weather and climate and implications on future mitigation strategies involving air quality/weather/climate change.

Guest Editors

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Deadline for manuscript submissions

closed (1 December 2023)

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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!

Editor-in-Chief

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