Special Issue

Atmospheric Aerosol Hazards

Message from the Guest Editors

Suspended particulate matter in the atmosphere, commonly known as atmospheric aerosols, is recognized as an important source of uncertainty in our understanding of processes ranging from local to global scales, and of issues addressed to both climate change and the environment. The scattering and absorption of solar and terrestrial radiation as direct aerosol effects, and the modification of cloud condensation nuclei through aerosol cloud interaction as indirect aerosol effects, leads to the largest uncertainty in assessing the radiative forcing. Both types, naturally occurring (e.g., dust, volcanic ash, pollen) and anthropogenic aerosols have well-known short-term and long-term detrimental effects on human health, causing respiratory problems, cardiovascular disease, and even premature death.

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About the Journal

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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