

Special Issue

Physical, Chemical and Optical Properties of Aerosols

Message from the Guest Editors

Aerosols are of importance for atmospheric chemistry and physics, climate, and public health. Aerosol particles emitted by a range of sources, including vehicles, wildfires, volcanoes and sea spray from the ocean can be transported around the globe in a matter of days or weeks. Because aerosols are composed of solid and liquid particles of varying physicochemical complexity, size, and phase, the impact of aerosols on our climate and environment represents not only a scientific grand challenge, but also an international challenge.

Further, we can improve the accuracy of atmospheric aerosol and understand the impacts of atmospheric aerosols on the environment only through the integration of field, laboratory, and modeling analysis. This issue is intended to present the current state of our scientific knowledge in the analysis of atmospheric aerosols and discuss the aerosol impact on the environment according to their physical and optical properties as well as chemical properties. We solicit research articles or review articles focused on atmospheric aerosol and its impacts on the environment applied in fields of meteorology, environmental science, and other interdisciplinary areas.

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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

Dr. Daniele Contini

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