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Atmospheric Aerosol Optical Properties

Guest Editors:

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Deadline for manuscript submissions:
closed (10 May 2022)

Message from the Guest Editors

This Special Issue aims to provide recent advances in the field of the optical properties of aerosols. The interaction of the solar radiation with these atmospheric particles plays an important role in determining the budget of the radiative forcing, as they can act both as absorbers or scatterers of solar light. They can also have an indirect effect, affecting the formation of clouds and influencing their lifetime.

Besides their contribution to climate change and visibility conditions, this topic is also relevant to those working with identifying potential sources of aerosols. Original results from laboratory and field measurements, both remote and in situ, are all welcome contributions. Authors are encouraged to include a section touching on future issues, opportunities, and/or concerns related to the next decade's horizons.

Topics of interest for the Special Issue include, but are not limited to:

absorption and scattering coefficients;
single scattering albedo and extinction coefficients;
absorption and scattering Ångström exponents;
effects of aerosols over climate: radiative forcing;
other effects of aerosols: visibility.

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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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