



Aerosol Environmental Remote Sensing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Aerosols, clouds, and atmospheric gases absorb and scatter incoming sunlight and radiate long-wave infrared radiation. The process is accompanied by a dynamic redistribution of energy between the ocean, land, and atmosphere. Over the past few decades, physical processes have been introduced into climate models to make simulations more accurate. However, due to the complexity and variability of aerosol property inversion, the simulation of atmospheric aerosol effects is still in a highly uncertain state. Aerosols play important roles in climate, meteorology, and public health, hence attracting a lot of public concern.

Remote sensing is very useful for acquiring aerosol information in large scales considering its large coverage and long operation time. From 2000, with the launch of more and more satellite remote sensing sensors, algorithms and new applications are becoming more popular. To reflect the newly developed algorithms and applications of aerosol environmental and remote sensing, we are opening this new Special Issue in Atmosphere, calling for submissions of related original high-quality publications.

Dr. Wei Chen
Guest Editor





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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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