



Remote Sensing of Greenhouse Gases and Air Pollution

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Message from the Guest Editors

Dear colleagues,

Continuous increases in human population and human activities have resulted in remarkable changes in the compositions of the atmosphere since the industrial revolution. Climate change and air pollution are two major consequences of such changes. The scientific understanding of these two issues requires a variety of observations of the atmosphere in different platforms. Among them, satellite remote sensing has added a new dimension to these observations. Remote sensing of greenhouse gases has already illustrated promising applications related to climate change studies. Remote sensing data are being more and more widely used in the monitoring of air pollution, which helps to identify variations of air pollutants in space and time and untangle the underlying mechanisms responsible for these variations.

This Special Issue invites contributions on recent advances in remote sensing of greenhouse gases (i.e., CO₂, CH₄, N₂O, H₂O, and tropospheric O₃), polluted gases and particular matters (i.e., tropospheric O₃, CO, SO₂, NO₂, and aerosols), as well as the applications of these remote sensing data for climate change and air pollution studies.





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Message from the Editor-in-Chief

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