



Study of Air Pollution Based on Remote Sensing

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Message from the Guest Editors

High-concentration atmospheric aerosol, ozone, VOCs, nitrogen oxide, sulfur dioxide, and other air pollutants pose a great threat to the ecosystem and to human health. In order to fully clarify the process of air pollution, advanced monitoring technology is needed. Remote sensing methods have unique advantages in monitoring the horizontal and vertical distribution of air pollutants, which can make up for the lack of spatial distribution monitoring of in situ monitoring networks. Remote sensing data on high-spatial-temporal-resolution air pollutants can be used to study the spatial-temporal distribution characteristics, transmission characteristics, and evolution mechanism of air pollution.

We are pleased to announce the launch of a new Special Issue entitled “Study of Air Pollution Based on Remote Sensing”, which invites contributions presenting research on atmospheric environment remote sensing technology and its applications. This covers the design of atmospheric monitoring instruments, retrieval algorithms, observation experiments, data analysis research, health impact assessment, etc.





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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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