



## Remote Sensing Applied in Atmosphere: Recent Trends, Current Progress and Future Directions

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### Message from the Guest Editors

Our atmosphere is closely related to the survival of our planet and the functioning of our daily lives. Satellite remote sensing techniques, which can effectively monitor the continuous and dynamic status of air over large areas, are widely applied in the field of atmospheric and environmental research around the world, and they have played an important role in air monitoring and evaluation in applications such as aerosols, clouds, air pollution, straw burning, dust storms, carbon emissions, pollution source detection, volcanic ash, etc. Recently, with the most rapid development of the economy and space technology seen in decades, especially for high-resolution satellites, many atmospheric problems must be detected by advanced satellite remote sensing. This Special Issue aims to showcase the recent trends, current progress and future research directions of remote sensing as applied in atmospheric research. Original results from ground experiments, model simulations and review papers related to these aspects are all welcome contributions. Authors are encouraged to present a section covering future issues, opportunities, and/or concerns related to their topics.





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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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