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Development of LIDAR Techniques for Atmospheric Remote Sensing (2nd Edition)

Guest Editor:

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Deadline for manuscript submissions:
24 May 2024

Message from the Guest Editor

Dear Colleagues,

This Special Issue is the second volume in a series of publications dedicated to "Development of LIDAR Techniques for Atmospheric Remote Sensing" (https://www.mdpi.com/journal/atmosphere/special_issues/LIDA

LIDAR is an important active remote sensing tool to monitor atmospheric components such as aerosols, temperature, pollutant gases and greenhouse gases (e.g., CALIPSO, ACDL, and Aeolus) during the day and night. The Special Issue aims to present the latest research in the system development and applications of LIDAR in the atmosphere. We invite you to submit articles on your recent research on LIDAR system development with respect to the following topics:

1. Innovative methods for monitoring atmospheric composition;
2. Hardware development for LIDAR systems;
3. Models for quantifying gas fluxes;
4. The collaborative observation of greenhouse and pollution gases;
5. Measurements for stratospheric meteorology.

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Editor-in-Chief

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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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