Special Issue

Advances in Atmospheric Lidar Remote Sensing

Message from the Guest Editor

The scope of this Special Issue is to present the recent advances in atmospheric lidar. Lidar systems are uniquely capable of profiling the composition and dynamics of the atmosphere from the ground to geospace. Progress in laser and allied technologies and methodologies are enabling new lidar systems that are yielding measurements with unprecedented reliability and accuracy. This progress is highlighted in the deployment of the ALADIN wind lidar on the Aeolus satellite, as well as new ground-based systems employing new tunable solid-state and diode-pumped lasers. These measurements afford new opportunities for advancing our understanding of the environment, weather, climate, and space weather.

Guest Editor

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About the Journal

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!

Editor-in-Chief

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