



High Resolution Active Optical Remote Sensing Observations of Aerosols, Clouds and Aerosol-Cloud Interactions and Their Implication to Climate

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Message from the Guest Editors

Dear Colleagues,

Contributions describing original research results from ground-based, airborne, and space-based observational vantage points are solicited. In particular, geometrical and optical properties of aerosol layers are important in climate, radiation budget, and cloud formation research (aerosol–cloud interaction). One of the goals of this Special Issue is, therefore, to survey the state-of-the-art of active optical remote sensing instruments for determining the vertical and horizontal distribution of clouds and aerosols throughout the atmospheric column. Another topic that benefits greatly from active optical remote sensing instruments is the elucidation of chemical and physical processes that occur in moderately and heavily dust polluted environments. For this application it is necessary to accurately describe the planetary boundary layer dynamics and depth evolution (a field in which LiDAR techniques excel). Other topics of interest for this Special Issue include: process studies related to atmospheric composition, pollution, transport and dynamics, and convective storm development.





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Message from the Editor-in-Chief

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