

Special Issue

Ground Based and Satellite Remote Sensing of Influence of Boundary Layer Dynamics on Aerosol and Air Quality

Message from the Guest Editors

The aim of the Special Issue is to thoroughly understand the effect of boundary layer dynamics on aerosol generation, transport, and air quality, using ground-based and satellite remote sensing techniques. In this Special Issue, we welcome the novel findings and high-quality research articles in the field of atmospheric aerosol studies using in situ, remote sensing and modelling techniques. Manuscripts can be related, but are not limited, to the following themes.

- Ground-based and satellite remote-sensing of aerosol vertical structure and properties.
- Unmanned aerial vehicle (UAV) for boundary layer aerosol profiling.
- Advanced machine learning and artificial intelligence tools to identify the mixing layer depths from different remote sensing datasets.
- Influence of boundary layer dynamics on the aerosol vertical distribution and vice versa.
- Boundary layer influence on air quality and visibility degradation.
- Innovative low-cost sensors network to investigate the spatio-temporal dispersion and impact on air quality.
- Influence of aerosol chemical composition on the thermal inversions (in boundary layer) and vertical dispersion of aerosols.

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Guest Editors

Dr. M. Roja Raman

Dr. P R Sinha

Dr. Bomidi Lakshmi Madhavan

Prof. Dorita Rostkier-Edelstein

Deadline for manuscript submissions

closed (31 July 2023)



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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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