# Special Issue

# Advances in Remote Sensing of Atmospheric Aerosols and Their Radiative Effects

## Message from the Guest Editors

Generally, aerosol retrieval algorithms improved as new theoretical developments allow for obtaining a better understanding of instrument capabilities. The aim of this Special Issue is documenting retrieval algorithm upgrades or the description of new algorithmic approaches applied to satellite-borne instrumentation deployed over the last twenty-five years, using spectral measurements of backscattered near-UV radiation (OMI and TROPOMI), visible and near-infrared radiation (MODIS and VIIRS), multi-angle spectral measurements (MiSR) and polarization observations (POLDER). Papers on retrieval algorithmic approaches applied to both low and geostationary orbital configurations (i.e., GEMS and TEMPO) and to lidar observations are encouraged. For this Special Issue, we invite papers on the use of surface-based and space-borne observations by current and upcoming missions for the retrieval of aerosol properties, including, new sensor capabilities, surface characterization and retrieval algorithm development and improvement. Papers on analyses of long-term records and the estimation of aerosol radiative effects are strongly encouraged.

## Guest Editors

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## Deadline for manuscript submissions

31 December 2025

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### 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

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