



Monitoring Pollution Sources Using Remote Sensing Technologies Current Understanding, Limitations and Future Directions of Research

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Message from the Guest Editors

Dear Colleagues,

Remote-sensing assessments from satellite instruments combined with ground-monitoring measurements, models, and advanced statistical methods have become increasingly important for assessing ground and tropospheric conditions. One of the main questions and challenges in the current research is the identification of pollution sources.

In this Special Issue, we would like to provide a state-of-the-art synthesis of these methods and their applications for sensing atmospheric conditions. Potential topics include but are not limited to:

- Monitoring of diverse sources of pollution: dust pollution, anthropogenic, marine, and mixed sources
- Aerosol climatology in challenging environments: remote regions; areas that are lack of ground-monitoring sites; bright background regions; cloudy environments; and areas that have undergone environmental degradation
- Air pollution monitoring using remote sensing technologies at different spatial and temporal resolutions
- Active sensing of the atmosphere for vertical profiling
- New algorithms and technologies to address current limitation in air quality monitoring
- Big data vs. lack of data- statistical methods to fill the gap





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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.

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