

Special Issue

Application of Satellite Remote Sensing Technology in Air Pollution Monitoring and Forecasting

Message from the Guest Editors

This Special Issue aims to provide a platform for cutting-edge research that leverages satellite remote sensing to advance air quality science. Topics covered range from methodological advances in pollutant retrieval and data fusion to applications in monitoring and forecasting, health assessment, and policy support. We welcome a wide variety of submissions, including original research articles, methodological papers, case studies, comparative evaluations, and reviews. Suggested themes include, but are not limited to, the following:

- Aerosol and trace gas retrieval (PM₁₀, PM₅, NO₂, O₃, and SO₂);
- Validation and intercomparison with ground-based observations;
- Multi-sensor and multi-platform data fusion;
- Spatio-temporal data assimilation and downscaling;
- Machine learning and GeoAI applications;
- Air quality forecasting and early warning systems;
- Multi-pollutant interactions and regional analysis;
- Public health and environmental justice applications;
- Policy and regulatory support based on satellite data.

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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.

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