

## Special Issue

# Recent Advances in Air Quality Modeling, Forecasting and Data Assimilation

### Message from the Guest Editors

Air quality prediction using numerical models exhibits large forecast errors with systematic model biases. There are major uncertainties in the representations of meteorological and chemical processes in models along with inaccurate anthropogenic emissions and initial and boundary conditions used for model simulations. Recent advances in data assimilation techniques, which effectively imbed observations into numerical model predictions, provide unprecedented opportunities to significantly improve forecast capability. In particular, observations from geostationary satellites, as well as polar-orbiting satellites cover wide areas and fill the spatial gap in the existing ground-based observation networks. This Special Issue proposes to document recent advances and improvements in air quality modeling and forecasting techniques and the development of aerosol data assimilation methods for utilizing surface and satellite observations for gases and aerosols.

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### Guest Editors

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Dr. Daisuke Goto

Dr. Dan Chen

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### Deadline for manuscript submissions

closed (20 February 2023)



## Remote Sensing

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*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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