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Recent Advances in Air Quality Modeling, Forecasting and Data Assimilation

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Deadline for manuscript submissions:
closed (20 February 2023)

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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Message from the Editor-in-Chief

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