Special Issue

Quantifying the Impact of COVID-19 on Air Pollutant Emissions, Air Quality, and Climate Change

Message from the Guest Editors

The COVID-19 pandemic has greatly changed air pollutant emissions across the globe by altering human activities. We are calling for papers to quantify these changes, which are essential to understand their impact on human health and to validate our modeling capability and sensitivity of such events. Examples of potential topics include the following:

- Estimate air pollutant emission changes based on ground-based, airborne, and satellite observations, human activity indicators, governmental statistics, and other datasets;
- Quantify the spatiotemporal changes of air quality using various observations and air pollution models;
- Inferring the impact of changing atmospheric constituents on the weather and climate;
- Evaluate how these environmental responses will affect human health.

Guest Editors

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Dr. Tzung May Fu

Dr. Deborah S. Gross

Dr. Andrey Khlystov

Deadline for manuscript submissions

closed (31 December 2022)

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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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