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New Insights in Air Quality Assessment: Forecasting and Monitoring

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Message from the Guest Editors

Dear Colleagues,

Air quality monitoring is an important means with which to evaluate ambient air status and human health exposure, while air quality forecasting is used to predict the change trend in air quality in the future. Air quality forecasting is usually based on historical data and monitoring data, using statistical methods, numerical models, artificial intelligence algorithms, expert experience comprehensive judgment, etc., which can be divided into short- and medium-/long-term prediction. Short-term forecasts are usually based on weather forecasts and air quality models, while medium-/long-term forecasts take into account more factors.

However, different from air quality monitoring and evaluation, different countries and regions in the world have different forecasting methods, time cycles, and evaluation methods. The purpose of this Special Issue is to promote the continuous improvement of ambient air quality and the protection of human health in countries around the world by sharing and exchanging the latest ambient air quality monitoring technology, analyses of pollution causes, and practices of forecasting and warning.

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Editor-in-Chief

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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!

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