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Atmospheric Pollutants: Characteristics, Sources and Transport

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Deadline for manuscript submissions:
closed (28 November 2023)

Message from the Guest Editors

Dear Colleagues,

Air pollution sources can be roughly classified into direct emissions, secondary production and transport. Transportation can directly deteriorate the environment through the production and emission of a large number of pollutants. The movement of warm and humid air masses likely increases secondary aerosol formation by aggravating aqueous and heterogeneous reactions. Moreover, the variation in atmospheric oxidation capacity could also deeply influence several pollution processes; therefore, it is also critical to understand the source, distribution and transport process of atmospheric oxidants. In addition, considering their health risk to humans, it is also necessary to study the human health effects of different air pollutants.

Solicited contributions include, but are not limited to, studies on the characteristics, sources and transport analysis of air pollutants through measurements and simulations. Research on environmental monitoring instruments and models is also encouraged. We invite authors to submit original research or to review previous work and summarize the current state of the science.

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Guest Editors

mdpi.com/si/147277

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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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