Special Issue

Advances in Air Pollution Meteorology

Message from the Guest Editors

Meteorology affects the transport of emissions and the formation of air pollutants such as ozone and particulate matter. The meteorology of the mixing layer height is a major factor that determines air pollutant concentrations near the Earth's surface because of its direct effect on volume. Meteorology also affects emissions, transport, gas-phase chemistry, deposition to surfaces, and the physics and chemistry of clouds and aerosols, but there remain uncertainties in the scientific understanding of these processes. Additionally, many comprehensive, meteorological 3-D air quality models are available to simulate air quality over scales that range from local to global that require characterizations of meteorology. The goal of this Special Issue is to publish new research on the meteorology that affects air quality. We welcome papers on relevant synoptic meteorology, the planetary boundary layer, field observations, atmospheric physics and chemical processes and improvements in numerical air quality models due to better understanding of the effects of meteorology on air pollutants.

Guest Editors

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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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