Special Issue

Air Pollution: Impacts on Health and Effects of Meteorology

Message from the Guest Editors

Air pollution and meteorology are closely linked and significantly impact human health since air pollutants, such as particulate matter (PM), nitrogen oxides (NO$_x$), sulfur dioxide (SO_2), carbon monoxide (CO), and volatile organic compounds (VOCs), originate from industrial emissions, vehicular exhaust, and natural sources. Meanwhile, meteorological factors—temperature, humidity, wind speed, and atmospheric pressure—influence the dispersion, concentration, and chemical reactions of pollutants. Weather conditions can exacerbate pollution levels. Air pollution has severe health consequences, particularly for vulnerable populations like children, the elderly, and individuals with respiratory or cardiovascular conditions. To mitigate health risks, it is crucial to monitor air quality, implement stricter emission regulations, and promote sustainable practices. Understanding the interactions between meteorology and air pollution can help develop strategies to reduce exposure and protect public health.

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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!

Editor-in-Chief

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