Special Issue

Outdoor Air Pollution and Human Health

Message from the Guest Editors

Outdoor air pollution is emerging as one of the top risk factors for death and disability worldwide in the 21st century. In 2017, it was the fifth highest mortality risk factor globally, and was responsible for nearly 5 million deaths and 147 million healthy life-years lost. Many pollutants such as gaseous (ozone, carbon monoxide, sulfur dioxide, nitrogen oxides), biological particles (bacteria, fungi, pollen), and particulate matter (inorganic and organic components) are considered key indicators of outdoor air pollution. Air pollution exposure is well known as a driver of respiratory diseases, heart disease, stroke and lung cancer, etc. Recent epidemiological studies have suggested that air pollution is also linked with diabetes, low birth weight, tuberculosis, mental health, and cognitive impacts such as autism, Alzheimer's disease, and dementia. A better understanding of the levels and sources of air pollutants and key contributors to their health burden is critical for implementing effective air pollution control strategies. This Special Issue will consider all innovative papers on "Outdoor Air Pollution and Its Impact on Human Health".

Guest Editors

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Deadline for manuscript submissions

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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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