

Special Issue

Air Pollution: Health Risks and Mitigation Strategies

Message from the Guest Editors

The detrimental health effects of major air pollutants, particularly on the cardiovascular and respiratory systems, are well-documented through robust epidemiological and toxicological studies. Traditional methods, such as relying on central monitoring stations or residence location, often fail to capture these intricate variations, potentially underestimating individual health risks. This Special Issue addresses this gap by focusing on studies that utilized advanced exposure assessment techniques. We encourage submissions that employ the following:

- Sophisticated air quality models: these models incorporate diverse data sets on air quality, meteorology, and human behavior to estimate individual exposure with greater precision.
- Personal exposure monitors: worn by participants, these devices directly measure an individual's exposure to air pollutants throughout their daily routines.

We welcome research investigating any health effects associated with these advanced exposure assessments, alongside literature reviews that summarize the current state of knowledge in overcoming the challenges of individual exposure assessment in air pollution research.

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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