



Health Effects of Urban Atmospheric Aerosols

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Message from the Guest Editors

The impacts of atmospheric particulate matter (either PM_{2.5}, PM₁₀ or ultrafine particles (UFPs)) on public health have become of great concern, particularly at urban locations. Epidemiological and toxicological studies have shown associations between both chronic and long-term exposure to urban particulate matter (PM) and a plethora of adverse health effects, including airway damages, and cardiopulmonary disorders. This Special Issue aims to present new contributions on the health effects of atmospheric urban PM. We encourage submissions that address the various links between the oxidative potential and inflammatory effects of urban PM and its physicochemical properties. This can also include source apportionment studies to identify the sources of the oxidative/inflammatory activity in ambient PM, as well as the molecular mechanism(s) by which atmospheric PM and its constituents act on human health. Contributions may also include epidemiologic studies and surveys on the association between outdoor and indoor air pollution and adverse health effects, as well as discussion on potential air pollution abatement strategies that may maximize benefits to 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!

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