



Extraction Methods of Air Pollutants from Sampling Matrices

Guest Editor:

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Message from the Guest Editor

The substantial and growing list of human health effects associated with exposure to air pollution, including fine particulate matter (PM_{2.5}), make understanding the underlying mechanisms critical in disease prevention and management as well as the development of regulatory standards. Toxicology studies are necessary to identify these mechanisms and potential therapeutic targets following exposure to air pollutants. This field of research frequently requires the removal of PM_{2.5} and other air pollutants from a collection matrix (i.e., various filter membrane materials, polyurethane foam, etc.) for use in toxicology applications. This Special Issue will focus on the extraction techniques used for toxicological analyses of PM_{2.5} collected on various sampling media. Papers focused on the chemical characterization and toxicity assessments of extracted air pollutants, particularly PM_{2.5}, or comparisons of extraction techniques are of particular interest. This may also include the assessment of various fractions of extracted PM_{2.5} or multipollutant exposures (gases and particulates).





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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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