

Special Issue

Atmospheric Pollution and Air Quality Monitoring: Bioindication and Bioaccumulation

Message from the Guest Editor

The contamination of the atmosphere and the improvement of air quality still represent huge and pressing issues for the entire globe. Biomonitoring can provide qualitative and quantitative data on air quality. Organisms can be used as bioindicators or bioaccumulators to obtain quantitative and qualitative information about airborne chemical compounds playing a crucial role in determining air pollution. Nevertheless, biomonitoring techniques often lack standardization, and the mechanisms underlying the uptake of air pollutants by biomonitors are scarcely investigated. In this Special Issue, we call for contributions that address the use of biomonitors for the evaluation of air pollution, the implementation and standardization of the biomonitoring techniques, and the comparison between different biomonitors or different air quality monitoring methodologies. We encourage the research papers based on topics including, but not limited to, the characterization of biomonitor features involved in pollutant uptake, as well as the description of the monitored air pollutants in terms of the nature, properties and mechanisms of transfer between environmental compartments.

Guest Editor

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Deadline for manuscript submissions

closed (24 July 2023)



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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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