



Indoor Air Quality—What Is Known and What Needs to Be Done

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Message from the Guest Editors

In the scope of indoor air quality (IAQ), some specific concerns have emerged and increased in importance such as indoor chemistry, airborne infection, and the impact on performance. The reported data on the impact of IAQ parameters, such as indoor temperature, ventilation rates, indoor concentration of carbon dioxide (CO₂), carbon monoxide (CO), particulate matters (PM), volatile organic compounds (VOCs), nitrogen dioxide (NO₂), and airborne microbes and their metabolites on occupants' respiratory health, emphasize the increasing importance and awareness of this topic, allowing the development of new strategies for intervention and exposure prevention. Additionally, innovations in air distribution and cleaning and new measuring techniques for microbial contamination, such as next-generation sequencing, have opened up a whole new area of research, and much is still to be learnt about the interface between humans and their surrounding microorganisms.

This Special Issue will focus on the assessment of the IAQ parameters and their sources, measurements, sampling and analysis methods, as well as the potential health outcomes for indoor occupants.





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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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