



Air Quality: Outdoor and Indoor

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Message from the Guest Editors

Statistically, in 2019, more than 9.0 million premature deaths were caused by pollution, corresponding to one in six deaths worldwide, where 75% of those deaths were attributed to air pollution (both household and ambient air pollution). The complex airflow, heat and mass transfer processes under the urban atmospheric boundary layer all interact, which creates a unique local microclimate environment in cities. Air pollutants are discharged into the atmosphere and eventually dissipate into the atmospheric environment through convection diffusion, adspotion, settlement, migration and transformation, etc. The migration and diffusion process of air pollutants is a multi-scale problem in nature, and there must be coupling correlation and mutual influence between different scales, such as how outdoor air pollutants affect indoor air quality and even how they enter the human respiratory system.

This Special Issue aims to invite research papers on various influencing factors of the diffusion, migration and transformation of air pollutants, especially the spatial diffusion and transfer mechanisms of air pollutants at different scales and their multi-scale coupling characteristics.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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