



The Impact of Air Pollution on Ecosystem Safety, Human Health, and Sustainable Development

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Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

Air pollution should be a huge political issue due to its substantial impact on public health. Many studies have estimated significant associations of air pollution with population health damage and economic loss, attracting large international attention. According to the World Health Organization (WHO), ambient air pollution causes eight million global premature deaths every year and approximately 50% of these are mainly due to the intake of PM_{2.5}. To improve healthcare, it is urgent that the nonlinear relationships between premature mortality caused by long-term/short-term exposures to different air pollutants and emissions from multiple sectors are evaluated via the combination of tools, such as the chemical transport model, extended response surface model, concentration–response functions, etc. The health benefits from emission reduction due to optimized control measures in different fields, such as industry, fuel consumption, traffic, daily life, etc., should also be quantified. Related research findings could help policymakers and advocates from public, private, and nonprofit sectors to develop further actions that protect public health.





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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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Journal Rank: CiteScore - Q1 (*Public Health, Environmental and Occupational Health*)

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