About The Book

Particulate matter (PM) in the ambient air is a key indicator of air pollution. It can be suspended over long time and travel over a long distance in the atmosphere. It can cause a wide range of disease that lead to a significant reduction of human life. Because of the potent role of PM and its associated pollutants, detailed knowledge of their effects on the environment in general, and human health in particular, is of primary importance.

This book provides an in-depth overview of monitoring of airborne particulates and their sources and transport. The dynamics of nutrients intake pathways of particulates by human body and other components of environment , and their possible health hazards and effects at different levels and at various organs are discussed. With contributions from well-known experts from diverse research fields, including medical and public health science professions, this book provides an exhaustive information on the health risks of air pollution and explores its control and mitigation strategies.

In addition to providing a scientific basis for particulate air pollution, this book will also help readers, researchers and public health professionals to appreciate the environmental determinants of public health and apply research evidence for improving the quality of life. This will also delineate future research initiative and policy actions needed with more stringent strategies for protecting the environment in general and human health in particular from PM at local, regional, and global levels.

Content

1) Introduction
2) Air Pollution and Human Health
3) Isotope Fingerprinting in Air Pollution Source Identification
4) Application of Remote Sensing and GIS for the Study of Health Effects of Air Pollution: Challenges and Future Perspectives
5) Analytical Methods for Oxygenated Polycyclic Aromatic Hydrocarbons (OPAHs) in Airborne Particulate
6) Environmetal Microplastics , Mitochondrial Health and Human Disease
7) Assessment of Haematological and Respiratory Health Risk From Air Pollution
8) Particulate Air Pollution and Neurotoxicity
9)Source Apportionment Characterization of Airborne Particulate Matter Induced Toxic Effects and Various Assay of Oxidative Potential Measurement.
10) Seasonal Prediction and Evaluation of RSPM for an Open Cast Coal Mine
11) Seasonal Health Risk Assessment and Prediction of PM2.5 Concentrations with a Gender Bias in Exposure after wearing Masks
12)Effect of Automobile Pollution on Morphological and biochemical Parameters of Some Tree Plants
13)Effect of Particulate Matter Pollution on Rice Crop and Greeenhouse Gas Emission from Rice Fields
14) Assessment of Heavy Metal Bioremediation Potential of Plants and Mircobes: