

Special Issue

Atmospheric Pollution and Microenvironmental Air Quality

Message from the Guest Editors

Atmospheric pollution remains one of the most pressing global challenges, directly threatening human health and accelerating climate change. Pollutants such as particulate matter (PM), nitrogen oxides (NO_x), ozone (O₃), and volatile organic compounds (VOCs) are linked to respiratory diseases, cardiovascular disorders, and premature mortality. Simultaneously, these pollutants contribute to global warming through radiative forcing and atmospheric chemistry interactions.

Understanding both outdoor atmospheric pollution and microenvironmental air quality is essential for designing equitable mitigation strategies, reducing health disparities, and advancing climate-resilient urban development. This Special Issue emphasizes the equal importance of studying outdoor and microenvironmental pollution systems. By bridging scales—from city-wide emissions to hyper-localized exposures—we aim to foster interdisciplinary solutions that align with the United Nations Sustainable Development Goals (SDGs), particularly SDG 3 (Good Health and Well-being), SDG 11 (Sustainable Cities), and SDG 13 (Climate Action).

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