Special Issue

Air Quality Assessment: Environmental Impacts, Risks and Human Health Hazards

Message from the Guest Editors

The topics covered by this Special Issue address the assessment of air quality, environmental impacts, human health hazards, and related risks, emphasising the integration of remote sensing (passive and active) with traditional monitoring and modelling. This Special Issue addresses a variety of contributions from literature reviews and case studies to methodological developments and advanced data applications, covering, but not limited to, the following areas: Passive remote sensing of atmospheric pollutants and aerosols (satellite AOD/AI/VI, ground-based photometer networks, sun-sky radiometry) and their relation to exposure and risk modelling.

Active remote sensing techniques for vertical distribution, mixing layer dynamics, and exposure assessment.

Decision support, mitigation strategies, and policy implications: how remote sensing and integrated monitoring can inform air-quality management, early warning systems, and planning.

Integrated methodologies for combining remote sensing data and ground measurements in the analysis of ecological and public health risks.

Human health hazard and risk assessment related to air quality, with novel exposure estimation methods.

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About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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