

Special Issue

3D Imaging and Analysis for Atmospheric Monitoring of Anthropogenic Sources

Message from the Guest Editor

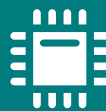
Anthropogenic air pollution is increasingly monitored using sensors such as low-cost sensors (LCS), electrochemical cells (EC), and metal-oxide semiconductors (MOS), which detect gases including NO₂, O₃, SO₂, H₂S, NO, and CO. AI-based correction improves accuracy and spatial resolution. Laboratory techniques also characterise pollutants such as PM₁₀, PM_{2.5}, and radioactive particles using laser technologies and 3D imaging. At larger scales, satellite systems (e.g., NASA's TEMPO) detect trace gases and help identify pollution sources. Monitoring and modelling increasingly support urban planning and environmental management. Although understanding of pollutant health impacts has improved, uncertainties remain. Emerging concerns include environmental microplastics and their potential effects on human and animal health. This Special Issue invites research on 3D characterisation, measurement, and monitoring of anthropogenic pollutants, including air quality assessment, aerosols and dust, PM₁₀ and PM_{2.5} health impacts, microplastics and tyre wear particles, and environmental monitoring using AI analysis, GIS, satellite and optical remote sensing, and Doppler LiDAR.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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