

Special Issue

Community-Scale Air Monitoring: Techniques and Practices

Message from the Guest Editor

Air quality data are predominantly gathered at central monitoring stations. However, these measurements prove inadequate for precisely assessing exposures, reliably evaluating public health risks, pinpointing emission sources, or designing effective pollution control strategies. It is recognized that ambient air monitoring programs must have an appropriate balance between regulatory measurements and more flexibility to address local issues that the existing monitoring networks fail to do adequately. Monitoring air quality on a community scale offers numerous advantages for exposure and risk assessments, environmental epidemiology, and pollution control. Moreover, community-scale air monitoring programs can uncover disproportionate exposure to air pollutants within socioeconomically disadvantaged communities, providing evidence of environmental justice (EJ) issues. Community-scale air monitoring has garnered significant attention from scientists, governments, non-profit organizations, and communities. This Special Issue aims to offer these stakeholders a platform to share insights into, findings from, and techniques for community-scale air monitoring practices.

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