

Special Issue

Recent Trends in Air Quality Sensing

Message from the Guest Editors

Air quality affects all animate and inanimate nature that constitutes the environment for human life. To ensure good air quality, it is necessary to obtain the relevant information and make it available. Humans are able to evaluate air quality using their own senses. However, this assessment is subjective and selective. In this situation, measurement technology, particularly sensor technology, comes to the rescue. These sensors generally have diverse measuring capabilities—small size, relatively low price, and ready for integration. Data from such systems are crucial for, among other things: 1) assessment and control of air quality in different types of environments (outdoor, indoor, working environment), 2) development of new air quality indicators, 3) construction and verification of mathematical models that describe and predict air quality, and 4) development and validation of statistical models linking air quality perception and instrumental measurement results. The development of sensor systems in conjunction with these elements contributes to new trends in air quality sensing.

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