Special Issue

Optical Sensing for Environmental Monitoring—2nd Edition

Message from the Guest Editors

Environmental monitoring has become essential for human sustainability and for the efficient and safe use of environmental resources. Current trends in environmental sensor development are to realize in-situ-type, smaller, easy-to-use, and rapid sensors with “smart” capabilities. Future sensors are expected to have high sensitivity and selectivity with real-time monitoring or multi-analyte detection capability based on the “lab-on-a-chip” principle. This can simplify the analysis, reduce the cost, and extend reliable monitoring outside the central laboratory. Optical biosensors based on bio-affinity molecules can provide very good sensitivity and selectivity for monitoring. Sensor arrays or CCD-based imaging can be implemented for monitoring various spatial locations or multi-parameter sensing. Again, Artificial Intelligence (AI)-based approaches are being integrated for simplifying sensor data or image analysis. This Special Issue will include featured research articles on environmental monitoring based on optical techniques. For more details, please visit here.

Guest Editors

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Message from the Editor-in-Chief

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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