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Optical Sensing for Environmental Monitoring

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Message from the Guest Editors

Environmental monitoring has become essential for human sustainability and for the efficient and safe use of environmental resources. Environmental monitoring typically involves sampling and analysing data with the help of sophisticated instruments to characterize and monitor the quality of the environment (air/water/soil).

Current trends in environmental sensor development are to realise *in-situ* type, smaller, easy to use, and rapid sensors, with “smart” capabilities. The future sensor is 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. This Special Issue will include featured research articles on environmental monitoring based on optical techniques.



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Special Issue



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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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