Special Issue

Low-Cost Sensors for Water Quality Monitoring

Message from the Guest Editor

In recent decades, continuous pollution has changed the quality of most water sources, including fresh and marine waters. To effectively monitor water quality, a very large number of sensors need to be deployed, many more than is currently feasible. Only by developing reliable and low-cost water-quality sensors can we be successful in quantifying the magnitude of the problem and verifying the success of remedial actions. Relevant parameters include turbidity, color, temperature, conductivity, hardness, pH, disinfectant concentration, nutrients, heavy metals and other ion concentrations, organic pollutants, and pathogen counts. Sensor technologies need to be developed that can form the basis of robust, low-power, low-cost devices for continuous monitoring. For this Special Issue, we invite contributions from researchers from academia and industry sharing recent advances in materials, devices, and supporting infrastructure with applications in water quality monitoring, especially pertaining to lowering the cost of the fabrication, deployment, and maintenance of these sensors.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/125399

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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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