

Special Issue

Recent Advances in Spectroscopic Sensing and Sensor Engineering

Message from the Guest Editors

This Special Issue aims to highlight the latest developments in spectroscopy and sensor engineering based on techniques including, but not limited to, photoacoustic spectroscopy, quartz-enhanced photoacoustic spectroscopy and light-induced thermoelastic spectroscopy. We invite original research articles covering advances in optical sensor architectures and laser sources or detectors, potentially integrated with advanced data processing algorithms. In addition to fundamental technological innovations, we particularly encourage contributions that demonstrate the deployment and performance of these sensors in real-world scenarios, such as on-site environmental monitoring for the spatial and temporal mapping of pollutants, medical diagnostics, industrial applications, agri-food quality assessments, and volcanic gas monitoring in geochemically active areas. Submissions addressing other application areas are also welcome, provided that they demonstrate clear relevance to the core objectives of enhanced sensitivity, selectivity, portability, and cost-efficiency in spectroscopic sensing.

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.

Editor-in-Chief

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