Special Issue

Optical Spectroscopy for Sensing, Monitoring and Analysis: 2nd Edition

Message from the Guest Editors

There is a growing need for sensors that are capable of monitoring a plethora of analytes in complex and hazardous environments in real time. Optical spectroscopy is an ideal candidate for these sensor applications due to the intrinsic ability to send light to and from a measurement point using optics or fibers, thereby protecting expensive equipment from exposure. These applications of optical spectroscopy have seen rapid growth in their capabilities due to advances in equipment, modeling techniques, and sensor fusion. Outside of in situ analysis, similar advances have been made to enable the use of optical spectroscopy for further sample characterization.

This Special Issue therefore aims to put together original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of optical spectroscopy for sensing, monitoring, and analysis. Potential topics include but are not limited to:

- optical spectroscopy
- laser spectroscopy
- laser-induced breakdown spectroscopy
- Raman spectroscopy
- spectrophotometry
- fluorescence spectroscopy
- online monitoring
- sensor fusion
- chemometrics
- machine learning

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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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