Special Issue

Spectroscopic Techniques for Optical Sensing

Message from the Guest Editor

The rapid advancement of the development of powerful and tunable optical sources and detectors essentially based on semiconductors has facilitated new opportunities for optical sensing techniques and applications. With these processes, miniaturization, integration, and, eventually, mass fabrication go hand in hand. Spectroscopic techniques previously bound to laboratory settings are now viable in mobile or field applications. This 2025 Special Issue of the journal *Sensors,* entitled “Spectroscopic Techniques for Optical Sensing”, will focus on all aspects regarding research, developments, and applications related to this area. Original research papers on the development of sources, optical interfaces, detectors, and signal processing for sensors, as well as short reviews that provide a state-of-the art overview on specific aspects, are welcome. We invite you to submit your contributions to this Special Issue.

Guest Editor

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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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