Special Issue

Emerging Trends in Optical Sensing

Message from the Guest Editor

This Special Issue focuses on the broad spectrum of luminescence sensors, encompassing both traditional luminescence techniques and cutting-edge multiphoton approaches. Luminescence sensors, which include fluorescence, phosphorescence, chemiluminescence, and multiphoton fluorescence, are key tools for detecting a wide range of chemical, biological, and environmental changes with high sensitivity and specificity. We invite submissions that present advancements in sensor design, innovative detection methods, and practical applications of both conventional and multiphoton luminescence sensors. Areas of interest include, but are not limited to, highly sensitive probes for medical diagnostics, biological imaging, environmental monitoring, and industrial applications. Additionally, contributions exploring the integration of luminescence sensors with advanced materials, nanotechnology, and artificial intelligence are encouraged.

Guest Editor

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Deadline for manuscript submissions

25 March 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/218229

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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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