Special Issue

Fluorescent and Colorimetric Sensors for Diagnostics and Drug Analysis

Message from the Guest Editor

Fluorescent and colorimetric sensors are powerful tools in diagnostics and drug analysis, offering sensitive and selective detection of biological and chemical analytes. Fluorescent sensors rely on changes in fluorescence intensity, wavelength, or lifetime in response to a target molecule, providing high sensitivity and real-time monitoring capabilities. Colorimetric sensors, on the other hand, induce visible color changes upon interacting with a target, making detection simple and cost-effective, often without the need for complex instrumentation. Both sensor types are widely used in medical diagnostics, environmental monitoring, and pharmaceutical analysis, aiding in the rapid, accurate identification of disease markers, pathogens, and drugs. Their versatility and ease of use make them essential in modern healthcare and research applications.

Guest Editor

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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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