Special Issue

Fluorescent Sensors for Advanced Applications in Biological and Chemical Detection

Message from the Guest Editor

Fluorescent sensors are at the forefront of innovative technologies for biological and chemical detection, offering unparalleled sensitivity and specificity. These sensors leverage the unique properties of fluorescent molecules to provide detailed insights into a variety of analytes, including biorelevant metal ions and anions, biomolecules, chemical substances, chemical transformation-tracking compounds, cancer microenvironment targets, and environmental pollutants like heavy metal cations and anions. This Special Issue will focus on the advanced applications of fluorescent sensors, highlighting both theoretical developments and practical implementations in biological and chemical contexts. The Special Issue will encompass a broad range of topics related to the advanced applications of fluorescent sensors, including but not limited to the following:

- Development of new fluorescent probes;
- Biosensing applications;
- Chemical sensing innovations;
- Fluorescent sensor integration with analytical techniques;
- Advancements in fluorescent sensor technology;
- Real-time bioimaging using fluorescent sensors.

Guest Editor

Dr. Sellamuthu Anbu

School of Chemistry, University of East Anglia, Norwich Research Park, Norwich NR4 7TJ, UK

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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