

## Special Issue

# Fluorescent Sensors for Biological and Chemical Detection

### Message from the Guest Editors

This Special Issue focuses on fluorescent sensors as powerful tools for the selective and sensitive detection of biological and chemical species in fields such as medical diagnostics, environmental monitoring, food safety, and pharmaceutical analysis. We will collect original research articles and reviews highlighting recent advances in design strategies, novel materials, sensing mechanisms, and real-world applications of fluorescent probes for detecting ions, small molecules, biomolecules, and pathogens. Fluorescence-based sensing offers high sensitivity, rapid response, and spatial-temporal resolution, making it indispensable for point-of-care testing, imaging, and in situ monitoring. Recent innovations include nanomaterial-enhanced probes, ratiometric sensors, AIE systems, and CRISPR-integrated biosensors. Additionally, the integration of smartphone-based detection and wearable fluorescent devices is revolutionizing portable diagnostics. We invite submissions on new sensor architectures, mechanistic studies, and interdisciplinary applications. Reviews on comparative sensing technologies or commercialization prospects are also welcome. Join us in advancing this dynamic field!

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### Guest Editors

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### Deadline for manuscript submissions

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## Biosensors

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## About the Journal

### Message from the Editor-in-Chief

*Biosensors* is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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### Editor-in-Chief

Prof. Dr. Giovanna Marrazza

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