

## Special Issue

# Advanced Fluorescence Biosensors

### Message from the Guest Editors

In the context of the technological development of sensors, the advent of biosensors has represented the keystone towards the creation of integrated, low-cost, user-friendly, and high-performance devices, capable of detecting the presence of chemical/biochemical agents in a wide range of matrices. Optical biosensors present a high value of the signal-to-noise ratio by virtue of their complete immunity to any electro-magnetic interference coming from the external environment and high intrinsic safety thanks to the dielectric nature of the measurement probe. Among the approaches used by optical biosensors, those that make use of fluorescent markers have acquired progressive and growing interest over the last few decades thanks to the possibility of obtaining operationally simple devices, capable of providing a fast response and high performance. The aim of this Special Issue is to host innovative and perspective contributions regarding these advanced strategies for the development of increasingly high-performance fluorescence biosensors.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2026)



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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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