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Fluorescent and Luminescent Biosensors: Development and Applications

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Deadline for manuscript
submissions:

closed (15 September 2021)

Message from the Guest Editors

Dear Colleagues,

Research into fluorescent and luminescent biosensors is highly active and interdisciplinary. This special issue of aims to collate recent developments and applications as well as highlight future directions in the field. Submissions are sought in, but not limited to, the following topics:

(1) Development of fluorescent and luminescent biosensors (molecules, proteins and nanostructure) based on all aspects of molecular spectroscopic mechanisms: Fluorescent/luminescent sensors; Bioluminescent/chemiluminescent sensors; Forster resonance energy transfer (FRET)-based fluorescent sensors; Internal charge transfer (ICT)-based fluorescent sensors; Aggregation-induced enhancement (AIE)-based fluorescent sensors; Anisotropy-based fluorescent sensors; Metal enhanced fluorescent sensors; Luminescence lifetime-based sensors.

(2) Applications of fluorescent and luminescent biosensors in biologically-related systems: Biological applications; Immunoassays; Intracellular sensing; Wearable chemical sensors; Microbial sensors; Food processes and agriculture; Environmental monitoring.



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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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