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Novel Optical Biosensing Technology

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Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

Recently, rapid advancements have been observed in optical biosensing technology in various areas, including disease diagnosis, agriculture, food safety, and environmental monitoring. Optical biosensing detection, molecular diagnostics, wearable sensors, digital health, and artificial intelligence strategies, especially integration with nanomaterials and functional nucleic acids (e.g., aptamers, DNAzymes, etc.), have shown lower detection costs and times, higher sensitivity and specificity, and more distinguished compatibility to portable platforms. Notably, as an emerging field, the clustered regularly interspaced short palindromic repeats (CRISPR)-based technique has become an immensely effective tool in rapid biosensing.

Therefore, this Special Issue aims to bring together original research and review articles regarding recent advances, technologies, solutions, applications, and new challenges in the field of novel optical biosensing technology.



mdpi.com/si/127379

Special Issue



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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.

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