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Advancement in Optical Biosensor for Bioassay and Detection of New Pollutants

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Deadline for manuscript submissions:
closed (30 September 2024)

Message from the Guest Editor

Dear Colleagues,

New pollutants (NPs) are toxic and harmful chemical substances discharged into the environment with biological toxicity, environmental persistence, and bioaccumulation. The rapid, high-frequency, and on-site/on-line quantitative detection of NPs is essential for early warning of pollution accident, reducing population mortality, and taking remedial action as and when the need arises.

Optical biosensors represent an attractive solution because they embrace great potential for highly sensitive and specific, real-time, high-frequency detection of pollutants in complex matrices with minimal sample preparation. This Special Issue provides a platform on the mechanisms for optical biosensing and the recent development of bioreceptors that enhance the rapid, easy, and accurate analysis of NPs. The advantages and challenges for the sensitivity, selectivity, and durability of optical biosensors are discussed, together with the opportunities and development strategies. Both original research papers, short communications, and review articles are welcome.

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