

Special Issue

Recent Advances in Fiber Optic Biosensor

Message from the Guest Editors

Optical fiber-based biosensors have become a prominent platform for biochemical and biological analysis, owing to their compact dimensions, rapid response times, high sensitivity, and resistance to electromagnetic interference. These fiber-optic biosensors enable the detection of variations in optical properties with remarkable sensitivity and accuracy without necessitating the labeling of target analytes. Moreover, they are suitable for in vivo applications in a minimally invasive or implantable format, facilitating spatial and temporal resolution analyses while concurrently integrating therapeutic functionalities. This capability presents novel opportunities for real-time diagnostics and personalized medicine.

In light of the rapid advancements in this field, we are pleased to announce a Special Issue entitled “Recent Advances in Fiber Optic Biosensor”. We welcome submissions of high-quality research articles, short communications, and review papers that novel methodological innovations in optical fiber biosensing and its applications across various biochemical and biomedical domains.

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