Fiber Optic Biochemical Sensor

Consequently, optical fiber SERS biosensors exhibit remarkable potential in biochemical fields requiring high accuracy, simplicity, minimally invasive detection, and long-term monitoring. This ...

Due to the benefits of the high sensitivity, real-time response, no labeling requirement, and good selectivity, fiber optic sensors based on surface plasmon resonance (SPR) have gained ...

This is a unique reference for both beginners and experts in optical fiber-based sensors, especially for industrial engineers working in biophotonics and biochemical sensing, as it presents state-of-the-art ...

First, the structure and sensing mechanism of different fiber-optic sensors used on chip was introduced. Second, optical detection methods in microfluidic chips combined with optical fibers...

The present Review covers an exhaustive survey of fundamentals and technological advancements in fiber optic interferometric sensors, especially for biosensing applications.

This Review provides a comprehensive review of the fundamentals as well as the current advances in developing optical fiber interferometry-based biochemical sensors.

This review summarizes principles and current stage of development of fiber-optic chemical sensors (FOCS) and biosensors (FOBS).

An overview of applications of fiber-optic biochemical sensor in microfluidic chips was carried out with a specific focus on different fiber-optic sensors used on chip, detection methods and ...

This review of recent developments in fiber-optic-based SPR biochemical sensors shows the wide variety of approaches still being pursued around the world but also an increasing level of maturity in ...

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