

The principles of fiber-optic SPR sensors and the recent research of fiber-optic localized SPR (LSPR) sensors are included. Moreover, the key research techniques using nanomaterials for fiber-optic ...

In recent decades, a wide range of sensing applications based on optical fiber interferometric sensors have arisen. Wireless communication systems, satellite communication, ...

Optical fiber based surface plasmon resonance (SPR) sensor, with small size and low cost, has been widely applied in biochemical, medical diagnostics and environmental monitoring due to its high ...

In this review article, we present the principle of SPR technique for sensing and various designs of the fiber optic SPR probe reported for the ...

This paper reports on the past, present, and future scope of fiber-optic SPR sensors in the field of sensing of different chemical, physical, and biochemical parameters. A detailed ...

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The review aims to provide an overview of the latest achievements in optical fiber-based SPR sensing technology, with emphasis on research towards sensitivity improvement.

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 ...

The fiber-optic surface plasmon resonance sensor has very promising applications in environmental monitoring, biochemical sensing, and medical diagnosis, due to the superiority of high ...

Cylindrical vector modes with azimuthal polarization and low transmission loss are proposed for the first time to be utilized in a novel design of a surface plasmon resonance (SPR) ...

The sensing principles of optical fiber-based SPR sensors are introduced, and different optical fiber-based SPR biosensors are described. Finally, the present challenges and prospects are discussed.



# Fiber Optic SPR Sensor

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