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Two-dimensional materials including graphene, TMDCs and BP are used to enhance the sensitivity of fiber optic SPR sensors. Noble metal nanoparticles and conducting metal oxides are ...

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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 ...

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.

SPR sensors provide promising advantages in the realm of chemical and biological sensing, especially when compared to traditional sensing techniques. Several variations on the ...

A fibre-based surface plasmon resonance (SPR) sensor architecture is numerically investigated for resolving near-unity refractive-index variations in a polymer-coated fibre geometry ...

This article presents a comprehensive overview of recent advancements in photonic crystal fiber (PCF)-based sensors, with a particular focus on the surface plasmon resonance (SPR) ...

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Different SPR optical fiber biosensors, including traditional optical fiber SPR biosensors, microstructured optical fiber (MOF) biosensors, grating-assisted plasmon fiber SPR biosensors, and others, are ...

This review compares the two most common configurations of SPR sensors: fiber-based and prism-based SPR sensors. This comprehensive review covers various sensor configurations, geometric ...

Therefore, this article presents a novel optical fiber-based surface plasmon resonance (SPR) sensor for the detection of wide range of chemical and biological samples employing 2-D materials.

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