

Preview

This review summarizes the recent advances in the application of nanomaterial coatings in optical fiber sensors, with a particular focus on deposition techniques and the research progress over the past five years in humidity sensing, gas detection, and biosensing. One of the main interests of such.

Fiber Optic Sensors based on 2D Nanomaterial for Humidity Sensing Application - A Short Review Abstract: Two-dimensional (2D)

Nanomaterials not only enhance the specificity, sensitivity, range of detection, and time of sensory investigation, but

In these days, the significance of fiber optic sensors has exceptionally increased due to technological advances in

Applying fiber-optics on surface plasmon resonance (SPR) sensors is aimed at practical usability over conventional

In recent years, there has been significant development and documentation of numerous gas and humidity sensors utilizing optical

By combining nanomaterials such as graphene, carbon nanotubes, metal nanoparticles and MXenes with appropriate host matrices,

Recently, rapid progress has been achieved in the field of nanomaterial preparation and investigation. Many

Micro-/nanofibers (MNFs) are optical fibers with diameters close to or below the wavelength of the guided light. These

Nanoparticle-doped optical fibers, investigated first as fiber lasers and fiber amplifiers, have

These nanomaterials are used extensively in the field of fiber optic biosensing to improve response time, detection

Nanomaterials, as optical sensing layers, are an important cornerstone for enhancing gas sensing response signals. In this review,

It was also thought that the sensing technology could take advantage of optical fibre"s features and replace electronic

Optical sensors are indispensable devices for collecting and transforming information in the era of Artificial

Future perspectives of developing optical sensors using greener approaches, multiplexed detection, and applications

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In the field of optical fiber technology integrated with nanophotonics emerged new avenues for applications in remote

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