Principle of pH Measurement Using Fiber Optic Sensors with Polyaniline

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In this paper, we propose a surface plasmon resonance (SPR) fiber-optic pH sensor combined with a tilted fiber Bragg grating (TFBG) by continuously coating gold and polyaniline (PANI) onto the surface ...

In this paper, we propose a tilted fiber Bragg grating (TFBG) pH sensor based on polyaniline (PANI) reactive deposition film.

Abstract A kind of fiber PH sensor coated with PANI (polyaniline) on the surface of LPFG (long-period fiber grating) has been developed in the work.

In this work, we report results on the fabrication and characterization of a surface plasmon resonance (SPR) pH sensor using platinum (Pt) and polyaniline (PANI) layers successively coated over an ...

The microfiber-optic interferential sensor based on polyaniline (PANI) sensing layer is efficiently performed in pH detection. The refractive index changes of PANI film can be translated into a ...

This paper combines the internal refractive index characteristics of the optical fiber Fabry-Perot (F-P) cavity and the response mechanism of polyaniline (PANI) and reactively deposits PANI ...

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