Fiber Optic pH Sensor Polyaniline

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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 ...

In this paper, we presented a novel, compact, conceptually simple, and fully functional low-cost prototype of a pH sensor with a PANI thin film as a sensing layer.

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 ...

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 ...

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

Abstract—In this article, we report the analysis of a novel optical fiber pH sensor based in polyaniline (PAni) coating applied on a trenched core-free (only-bridge) silica fiber.

In this paper, we report the analysis of a novel optical fiber pH sensor based in polyaniline coating applied on a trenched core-free (only-bridge) silica fiber. The results are compared...

To summarize, a new fiber optic pH sensor has been proposed and experimentally demonstrated. The sensing head is based on a PAni coating on the surface of a TFBG deposited ...

In this article, we report the analysis of a novel optical fiber pH sensor based in polyaniline (PAni) coating applied on a trenched core-free (only-bridge) silica fiber. The results are compared to ...

Abstract This study introduces a potentiometric pH sensor that is extremely sensitive and specifically designed for food and pharmaceutical applications. The sensor utilizes a pH-sensitive interface ...

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For more information, pricing, or custom data center solutions, please contact us:

Website: https://www.yoahorroenergia.es
Email: hello@yoahorroenergia.es
Phone: +233 54 318 7269
Address: Plot 28, Spintex Road, Accra, Greater Accra, Ghana

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