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Nanosensors," in Optochemical Nanosensors, A. Cusano, F. J. Arregui, M. Giordano, and A. Cutolo, (Taylor and

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Francis, 2012). ... chemo-sensor based on long-period gratings coated with  $\delta$  form syndiotactic polystyrene," IEEE Photon. ....

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Optochemical nanosensors have promising prospects because of their potential to improve the world in many ways. There are diverse applications, such as medical diagnosis, virology, food security, environmental monitoring, or homeland security, where optochemical sensors can play a relevant role.

## **Sensors | Special Issue : Optical Chemical Nanosensors**

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In this contribution, a review of the development of high-performance optochemical nanosensors based on the integration of carbon nanotubes with the optical fiber technology is presented. The paper first provide an overview of the amazing features of carbon nanotubes and their exploitation as highly adsorbent nanoscale materials for gas sensing applications.

## **Fiber Optic Chemical Nanosensors Based on Engineered ...**

Nanosensors are nanoscale devices that measure physical quantities and convert these to signals that can be detected and analyzed. There are several ways proposed today to make nanosensors; these include top-down lithography, bottom-up assembly, and molecular self-assembly. There are different types of nanosensors in the market and in development for various applications, most notably in defense, environmental, and healthcare industries. These sensors

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share the same basic workflow: a  
selective b

## **Nanosensor - Wikipedia**

Nanosized sensors enable the study of chemical and biochemical processes at a level and in dimensions that may not have been envisioned some 20 years ago. Fueled by their inherent small size and the unusual optical, magnetic, catalytic, and mechanical properties of nanoparticles, remarkable progress has been made in recent years in the development

## **Optochemical Nanosensors | Taylor & Francis Group**

Fiber optic ion correlation-based nanosensors for sodium, potassium and chloride employing these 'supertips' have been applied to the monitoring of ion concentrations in single mouse oocytes. These sensors have also been used to monitor the effect of an ion channel-blocking agent.

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## **Optochemical nanosensors for intracellular chemical ...**

Optochemical Nanosensors book. Edited By Andrea Cusano, Francisco J. Arregui, Michele Giordano, Antonello Cutolo. Edition 1st Edition . First Published 2013 . eBook Published 19 April 2016 . ... - Nanostructured Surface Plasmon Resonance Sensors. With Mikael Svedendahl, Si Chen, Mikael Käll.

## **Optochemical Nanosensors - Taylor & Francis Group**

Similarly, nanosensors are sensors whose active elements include nanomaterials (NMs). In general, nanosensors consist of a signal source (QDs, noble metals [41,42] , fluorophores [43,44] , etc.), surface-functionalize dentities that are capable of interacting with specific compounds, and supports (if necessary) including electrodes.

## **Nanosensors - an overview | ScienceDirect Topics**



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Nanoparticles have many advantages (4, 17), as building blocks for intracellular or in vivo sensors due to their non-toxicity and excellent engineerability: 1) The inert matrix protects cellular contents from the incorporated sensing components and vice versa. The nanoparticle matrix eliminates interferences such as protein binding and/or membrane/organelle sequestration.

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The text also reviews optochemical sensors, starting from the basics in optoelectronics and concluding with the principles of operation at the basis of optochemical devices. The authors offer insight into future trends in this growing field and present a range of applications in the fields of medicine, security, and bioterrorism\ "-- \span ...

### **Optochemical nanosensors (eBook, 2013) [WorldCat.org]**

A simple single nanoscale sensor and light spectroscopy (fluorescence) can be used for sensing the difference in potential across a biological membrane such as a cell wall. This non-contact, optical voltage nanosensor is based on a Förster resonance energy transfer (FRET) sensor on a DNA origami.

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