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Waveguide Spectroscopy Of Thin Films

Waveguide Spectroscopy of Thin Films, Volume 33 Table of Contents. In Waveguide Spectroscopy of Thin Films new methods of study of the linear and nonlinear optical... Key Features. Details. Review's title & body can't be empty Question's body can't be empty Please enter a star rating for this ...

Waveguide Spectroscopy of Thin Films, Volume 33 - 1st Edition

Waveguide Spectroscopy of Thin Films. Edited by Alexander V. Khomchenko.

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Thin Films and Nanostructures | Waveguide Spectroscopy of ...

A waveguide method of measurement of the absorption spectra of thin films in the range of their transparency is considered. The absorption spectra obtained by this method for the thin films of tin oxide and zinc oxide in a wavelength range from 400 to 800 nm are presented.

Waveguide spectroscopy of thin films | SpringerLink

Waveguide spectroscopy of thin films. [Alexander V Khomchenko] -- In this book new methods of study of the linear and nonlinear optical properties of thin films are presented. These techniques

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are based on the principles of the spatial Fourier spectroscopy of the ...

Waveguide spectroscopy of thin films (eBook, 2005 ...

Interaction of light with matter
--Spectroscopy of optical guided modes
--New applications of the m-line technique for studying thin-film structures --Spatial Fourier spectroscopy of guided modes : measuring thin-film parameters --Characterization of thin films by prism coupling of leaky modes --Measurements of absorption spectra of thin films --Applications of waveguide spectroscopy techniques in sensor systems --Optical nonlinearity in thin film at low-intensity light --Optical ...

Waveguide spectroscopy of thin films (Book, 2005 ...

Nanoporous thin films in optical waveguide spectroscopy for chemical analytics Abstract. Spectroscopy with planar optical waveguides is still an active field of research for the

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quantitative analysis... Introduction.
Dielectric waveguide structures, either as optical fibers or in planar or strip ...

Nanoporous thin films in optical waveguide spectroscopy ...

Gadolinium oxide films, prepared by the sol-gel process, present waveguiding properties. Their structures were studied by waveguide Raman spectroscopy (WRS) and confirmed using transmission electron microscopy (TEM). The structural evolution of the layers with annealing temperatures from 650 up to 900°C was investigated.

Waveguide Raman spectroscopy of sol-gel Gd₂O₃ thin films ...

Miniaturized spectrometers offering low cost, low reagent consumption, high throughput, sensitivity and automation are the future of sensing and have significant applications in environmental monitoring, food safety, biotechnology, pharmaceuticals, and healthcare.
Midinfrared (MIR) spectroscopy

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employing complementary metal oxide semiconductor (CMOS) compatible thin film waveguides and microfluidics shows great promise toward highly integrated and robust detection tools and liquid handling.

Perspective on Thin Film Waveguides for on-Chip Mid ...

Plasmon waveguide resonance is similar to surface plasmon resonance (SPR) spectroscopy, another label-free technique that has been widely used for measuring optical parameters of thin films on noble metal surfaces. 23 - 25 SPR has been employed extensively for studies of model biointerfaces, e.g., monitoring binding of soluble ligands to surface-bound receptors. 26, 27 In terms of instrumental configuration, two major types of SPR are practiced: (1) In angular mode, the shift of the ...

Broadband Plasmon Waveguide Resonance Spectroscopy for ...

We have characterized the terahertz

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(THz) vibrational spectroscopy of organic polycrystalline thin films using the new experimental technique of waveguide terahertz time domain spectroscopy (waveguide THz-TDS). The organic materials used in this study are tetracyanoquinodimethane (TCNQ) and 1,3-dicyanobenzene (13DCB).

High-Resolution Waveguide Terahertz Spectroscopy of ...

Waveguide Raman spectroscopy (WRS) has shown considerable potential for investigating the chemistry of thin films and interfaces in a number of fields, including microelectronics, imaging, optics, and coating technology.

Parametric optimization of waveguide Raman spectroscopy in ...

Optical Waveguide Lightmode Spectroscopy (OWLS) as a Sensor for Thin Film and Quantum Dot Corrosion. Sensors2012, 12, 17330-17342; doi:10.3390/s121217330. sensors. ISSN

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1424-8220.

www.mdpi.com/journal/sensors. Article.

Optical Waveguide Lightmode

Spectroscopy (OWLS) as a. Sensor for

Thin Film and Quantum Dot Corrosion.

Hao Yu 1, Carrick M. Eggleston 2,* , Jiajun

Chen 3, Wenyong Wang 3, Qilin Dai

3and.

Optical Waveguide Lightmode Spectroscopy (OWLS) as a ...

In this contribution, we summarize some recent development in optical waveguide spectroscopy using nanoporous thin films as the planar substrates that can guide the light just as well as bulk thin films.

Nanoporous thin films in optical waveguide spectroscopy ...

This article reports the implementation of optical waveguide spectroscopy (OWS) for the quantitative time-resolved observation of changes in the swelling behavior and mass density of protein-functionalized hydrogel films. In

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the experiment, a thin film of an N-isopropylacrylamide (NIPAAm)-based polymer that supported optical waveguide modes is attached to a metallic sensor surface.

Optical Waveguide Spectroscopy for the Investigation of ...

It is now possible to fabricate thin photovoltaic films from an ink containing nanoparticles of stibnite, and to nanopattern those films for 2-D and 3-D structures of pretty much any shape.

Nanodots made of photovoltaic material support waveguide modes

Optical waveguide lightmode spectroscopy (OWLS) is usually applied as a biosensor system to the sorption-desorption of proteins to waveguide surfaces. Here, we show that OWLS can be used to monitor the quality of oxide thin film materials and of coatings of pulsed laser deposition synthesized CdSe quantum dots (QDs) intended for solar energy applications.

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Optical Waveguide Lightmode Spectroscopy (OWLS) as a ...

Waveguide Raman spectroscopy uses the evanescent field outside a waveguide to probe the analyte on the surface of the chip, permitting to selectively study thin films or nanostructures on top of the waveguide while benefiting from the long interaction path of the excitation with the analyte.

OSA | Study on multiple waveguide platforms for waveguide ...

Raman spectroscopy for the analysis of submicron thin films with a description of methodology for measuring the film thickness and location of an interface between two polymer layers. Chapter 3 provides an outlook and future directions for the work outlined in this thesis.

Scanning angle Raman spectroscopy in polymer thin film ...

Thin film lithium niobate optical

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modulators allow modulation of optical signals up to several THz due to perfect phase matching between RF signal and optical signal that can be achieved using thin film devices. The platform uses a ridge waveguide fabricated by direct etching of lithium niobate thin film fabricated on silicon substrates.

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