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Combination of electrical and optical properties in such a porous silicon nanowire may open new opportunities for nanoscale optoelectronic devices, solar energy harvesting and conversion and sensors.

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parallel with optical signals, providing a basis for multiparametric sensing.

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treatment of Si wafers in hydrofluoric acid solutions was known since the fifties due to the works by Uhrliir Turner , Memming and Schwandt . The material was considered as suitable for electronic applications

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(local insulation, gettering of impurities, sacrificial layers, etc.) but never in relation with optical applications.

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Porous silicon (P-Si) is a suitable material for applications in gas sensors, biomedical sensors and optical sensors. In this work, the effects of humidity and acetone on the optical and electrical

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properties of porous silicon nanostructures, produced by two different methods, are studied.

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Yliniemä, S. (1998).

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Photoluminescent and optical properties of porous silicon

...

Organic semiconductors have recently gained more attention due to their electrical properties and

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flexibility for combining with other materials, mainly with inorganic semiconductors (silicon). In this work we fabricated heterostructures based on Erbium phthalocyanine (ErPc) on porous silicon (PS) and

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Crystalline silicon (c-Si) .

Erbium phthalocyanine on porous silicon: Morphological ...

The simple adjustment of pore morphology and geometry of porous silicon also

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Optical Biosensors offers a convenient way to control its wetting behavior. Stable ultra- and superhydrophobic states on porous silicon can be fabricated and used in lab-on-a-chip, microfluidic devices for the improved

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Optical Bioanalysis.
Optical properties

Porous silicon - Wikipedia

The reversibility, specificity, stability, and scaling of signal response to analyte mass were

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quantified for a porous silicon-based optical interferometric biosensor. The sensor system studied consisted of a thin layer (5 μ m) of porous silicon modified with Protein A. The system was probed with

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various fragments of an aqueous Human IgG analyte.

A Porous Silicon Optical Biosensor: Detection of ...

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Properties of Eu $3+$ -Doped

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Jian Li, Rectification
effect and electron

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transport property of CdS/Si nanoheterostructure based on silicon nanoporous pillar array, Applied Physics Letters, 10.1063/1.3002297, 93 , 17 ...

Structural, optical and

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All these steps were necessary to achieve our main and final objective: the fabrication of porous silicon multilayer optical devices. The optical devices

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fabricated with porous silicon multilayers are Distributed Bragg Reflectors, microcavities (with applications as humidity sensors) and omnidirectional mirrors with structures different to the

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ones used until this moment that optimize their optical characteristics.

Design, fabrication and characterization of porous silicon ...

The porous silicon (PSi),

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which is produced by the electrochemical etching, has been used as a substrate for the growth of the titanium oxide (TiO_2) thin films. By using the EBPVD method, TiO_2 ...

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Book Description. Porous silicon is rapidly attracting increasing interest from various fields, including

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optoelectronics, microelectronics, photonics, medicine, sensor and energy technologies, chemistry, and biosensing. This nanostructured and biodegradable material has a range of unique properties

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Optical Biosensors that make it ideal for many applications.

Porous Silicon: From Formation to Applications

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A porous silicon-based optical interferometric

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Optical Biosensors. A biosensor has been developed based on induced wavelength shifts in the Fabry-Perot fringes in the visible-light reflection spectrum of appropriately derivatized thin films of porous silicon

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Optical Biosensors. Binding of molecules induced changes in the refractive index of the porous silicon.

A porous silicon-based optical interferometric biosensor

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2.1 Preparation of the porous silicon substrate The silicon samples used in this study were cut into 5 x 5 mm² squares, from single crystal silicon wafer. The porous silicon (PS) layers are formed on n type (100) c-

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wafers with resistivity of 1-10 Ω .cm and thickness of 500 -550 μ m using the electrochemical anodization.

Experimental study of optical and electrical properties of ...

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Optical Biosensors and electrical properties are highly dependent on particle size, doping of different materials and so on. Porous structures in silicon nanomaterials not only improve the specific surface

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Optical Biosensors and photoluminescence efficiency but also provide numbers of voids as well as the high surface to volume ratio and enhance the adsorption ability. In this review, we focus on the significance of

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porous silicon/mesoporous silicon nanoparticles (pSiNPs/mSiNPs) in the ...

Big Potential From Silicon-Based Porous Nanomaterials: In ...

Porous silicon (PS) is a

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semiconductor in nanocrystalline form (NPS), which could improve some properties of silicon, given that some properties, such as the electricals, are determined by the short range order of atoms, rather

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than by the long range

Nanocrystalline Porous Silicon: Structural, Optical

...

Here, the improvement in optical properties of porous SiC/Si is reported by

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Optimization of etching current density in electrochemical anodization of SiC layers on Si substrates. It is shown that the porosity and optical properties of porous SiC thin films on silicon

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Optical Biosensors substrates can be improved by optimization of etching current density.

Ultra-sensitive UV sensors based on porous silicon carbide ...

A very large surface to

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volume ratio of nanoporous silicon (PS) produces a high density of surface states, which are responsible for uncontrolled oxidation of the PS surface. Hence it disturbs the stability of the material and also

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creates difficulties in the formation of a reliable electrical contact. To passivate the surface states of the nanoporous silicon, hydrocarbon films prepared by ...

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Optical and electrical properties of annealed plasma ...

Organic semiconductors have recently gained more attention due to their electrical properties and flexibility for combining

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with other materials, mainly
with inorganic
semiconductors (silicon).
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