

**Surface Plasmon Resonance Sensors: A Materials Guide
To Design And Optimization (SpringerBriefs In Physics)
[Kindle Edition] By Leiva Casemiro Oliveira;Antonio
Marcus Nogueira Lima;Carsten Thirstrup;Helmut
Franz Neff**

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Marek Piliarik and Ji Homola, "Surface plasmon resonance (SPR) sensors: approaching their limits?," Opt. Express 17, 16505-16517 (2009)

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A compact multi-channel surface plasmon resonance (SPR) biosensor is demonstrated based on a tablet as the measurement platform. The SPR biosensor employs a bundle of

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Resonance sensors - arxiv

Extremely short-length surface plasmon resonance sensors Maxim L. Nesterov¹, Alexandre V. Kats¹ and Sergei K. Turitsyn² 1A. Ya. Usikov Institute for Radiophysics and

Localized surface plasmon resonance sensors based

First published on the web 12th December 2013. Localized surface plasmon resonance (LSPR) sensors serve as sensitive analytical tools based on refractive index

Parallel multichannel architecture for surface

Parallel multichannel architecture for surface plasmon resonance sensors. Journal of the European Optical Society - Rapid publications, Vol 7 (2012)

Performance comparison of two sensors based on

1. Introduction. Low cost sensors based on Surface Plasmon Resonance (SPR) in a Plastic Optical Fiber (POF) for biosensor implementation constitute a very sensitive

Surface plasmon resonance (spr) sensors -

Homola J (2006) Electromagnetic Theory of Surface Plasmons. In: Homola J (ed) Surface Plasmon Resonance Based Sensors. Springer Ser Chem Sens Biosens, vol 4.

Surface plasmon resonance based sensors |

Over the last two decades, surface plasmon resonance (SPR) sensors have attracted a great deal of attention. This volume of Springer Series on Chemical

Small molecule immunosensing using surface plasmon

Surface plasmon resonance (SPR) biosensors utilize refractive index changes to sensitively detect mass changes at noble metal sensor surface interfaces. As such, they

Enhancing the sensitivity of surface- plasmon

Surface-plasmon-resonance (SPR) sensing devices have attracted tremendous interest in the past decade, both from a fundamental-physics perspective and as highly

Biosensor - wikipedia, the free encyclopedia

Surface plasmon resonance sensors operate using a sensor chip consisting of a plastic cassette supporting a glass plate, one side of which is coated with a

Surface plasmon resonance - the department of

Surface Plasmon Resonance Signal Processing: (Fully) Integrated Approach In the first fully integrated approach, all signals are processed on the

Patent us5991048 - surface plasmon resonance light

The present invention provides SPR sensors in which the sensing element is a planar lightpipe. The sensors of this invention include configurations which employ

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Surface plasmon resonance sensors for detection

1. Chem Rev. 2008 Feb;108(2):462-93. doi: 10.1021/cr068107d. Epub 2008 Jan 30. Surface plasmon resonance sensors for detection of chemical and biological species.

Surface plasmon resonance based sensors: 4

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High-sensitivity surface plasmon resonance sensors

We propose an idea for improving the angular sensitivity of Kretschmann-type surface plasmon resonance (SPR) sensors through the use of high-refractive-index silver

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Surface Plasmon Resonance Based Sensors. Editors: Electromagnetic Theory of Surface Plasmons. Ji Homola. Download PDF (1844KB) Book Chapter. Pages 45-67.

The surface plasmon resonance - ukessays.com

The Surface Plasmon Resonance. This Literature review is divided into three main parts. They are, Surface Plasmon Resonance, BIACORE 3000 and Winspall.

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Chemical sensors based on surface plasmon

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Surface plasmon resonance basics - bionavis ltd

SPR THEORY. A surface plasmon is an electro-magnetic wave propagating along the surface of a thin metal layer. Optical excitation of the surface plasmon can be

Surface plasmon resonance sensors - springer

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Surface plasmon resonance-based fiber optic

Surface plasmon resonance technique in collaboration with optical fiber technology has brought tremendous advancements in sensing of

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Surface plasmon resonance - wikipedia, the free

Surface plasmon resonance (SPR) is the resonant oscillation of conduction electrons at the interface between a negative and positive permittivity material stimulated

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Sensing using localised surface plasmon resonance

The bright colours of noble metal particles have attracted considerable interest since historical times, where they were used as decorative pigments in stained glass

Physical features of surface plasmon resonance

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Surface plasmon resonance (SPR)-based biosensors are very powerful tools for the study of
biomolecular interactions, chemical detection and immunoassays. This p

Surface plasmon - wikipedia, the free

Surface plasmons (SPs) are coherent delocalized electron oscillations that exist at the interface between
any two materials where the real part of the dielectric

Surface plasmon resonance-based fiber and planar

3. Guided Wave Surface Plasmon Sensors. Since the SPP excitation with a prism is based on total
internal reflection, the coupling prism can be replaced by a waveguide

Academia.edu | documents in surface plasmon

Surface Plasmons, Surface plasmon resonance, and Localized Surface Plasmon Resonance Based
Sensors Due to the surface plasmon resonance of the Au

Ieee xplore abstract - surface plasmon resonance

Surface Plasmon Resonance (SPR) is a powerful technique for directly sensing in biological studies,
chemical detection and environmental pollution monitoring.

Surface plasmon resonance studies on molecular

Sensors 2002, 2 37 and 1.47. After washing with elution (c) for 6 hours, curve (b) was got in Fig.2. The
resonance angle shifts to lower value. With Freshel methods

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