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Surface Plasmon Polaritons Spps Introduction

Surface plasmon polaritons (SPPs) are electromagnetic waves that travel along a metal-dielectric or metal-air interface, practically in the infrared or visible-frequency. The term "surface plasmon polariton" explains that the wave involves both charge motion in the metal ("surface plasmon") and electromagnetic waves in the air or dielectric ("polariton").

Surface plasmon polariton - Wikipedia

Surface Plasmon Polaritons (SPPs) -Introduction and basic properties Standard textbook: - Heinz Raether, Surface Plasmons

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on Smooth and Rough Surfaces and on Gratings Springer Tracts in Modern Physics, Vol. 111, Springer Berlin 1988 Overview articles on Plasmonics: - A. Zayats, I. Smolyaninov, Journal of Optics A: Pure and Applied Optics 5, S16 ...

Surface Plasmon Polaritons (SPPs) Introduction and basic

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Introduction. With the rapid development of optical techniques, ... Excitation of surface plasmon polaritons (SPPs) can overcome the diffraction limit and offer a promising approach to control and manipulation propagation and dispersion of light on the nanometre scale.

Surface plasmon polaritons: physics and applications ...

1. Introduction Surface plasmon polaritons (SPPs) are an attractive form of electromagnetic (EM) waves bounded at the interface of metal and dielectric. At lower frequencies, including

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terahertz and microwave frequencies, spoof surface plasmon polaritons (SSPPs) exist at the interface of artificial materials, mim-

Spoof surface plasmon polaritons excitation and wavefront ...

Propagation of surface plasmon polaritons (SPPs) along the interface between a metal and a dielectric has attracted significant attention due to its unique optical properties, which has inspired a plethora of fascinating applications in photonics and optoelectronics. However, SPPs suffer from large attenuation because of the ohmic losses in the metal layer.

Development and Application of Surface Plasmon Polaritons ...

Introduction. Surface plasmon polaritons are electromagnetic modes with a locally enhanced electric field. These modes are

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expected to become the key for the development of photonics of the 21st century and thus the applications of surface plasmon polaritons have become a worldwide target to be studied.

Polariton - an overview | ScienceDirect Topics

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Spoof surface plasmons, also known as spoof surface plasmon polaritons, are surface electromagnetic waves in microwave and

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terahertz regimes that propagate along planar interfaces with sign-changing permittivities. Spoof surface plasmons are a type of surface plasmon polariton, which ordinarily propagate along metal and dielectric interfaces in infrared and visible frequencies.

Spoof surface plasmon - Wikipedia

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When $\omega < \omega_P$, the permittivity of metal ϵ_M is real and negative.

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The dispersion curve of SPPs lies to the right and closer to the dispersion curve of the light line. This indicates that the surface plasmon polaritons have a higher wavevector than the light waves of the same frequency, propagating along the surface .The wavevector of the EM wave in medium is imaginary; the EM wave decays ...

Recent advancements in surface plasmon polaritons ...
is played by surface plasmon polaritons (SPPs) propagating at the interface of the metal with the medium of incidence. Yet, simple and advanced models based on SPP propagation sometimes fail to explain experimental results, even of basic features such as the LIPSS period. We experimentally demonstrate, for the particular case of LIPSS

Surface Plasmon Polaritons on Rough Metal Surfaces: Role ...

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Surface plasmon-polaritons (SPPs) are electromagnetic modes that arise from the interaction between light and mobile surface charges, typically the conduction ... The aim of this paper is to give a didactic introduction to the properties of surface plasmon-polaritons with an emphasis

REVIEW ARTICLE Surface plasmon-polariton length scales

...

A comprehensive system with a high speed is built for imaging the terahertz (THz) surface plasmon polaritons (SPPs). Both the amplitude and the phase information of the focusing THz-SPPs excited by a semicircular plasmonic lens are achieved by using this system. The amplitude images present the focusing profiles of the THz-SPPs with different frequencies and the phase images reveal the Gouy ...

Comprehensive imaging of terahertz surface plasmon

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polaritons

We investigate numerically the propagation of steady-state monochromatic surface plasmon polaritons (SPPs) in curved chains of metal nanoparticles of various spheroidal shapes. We discuss the SPP propagation (decay of the amplitude), the polarization conversion due to coupling of orthogonally polarized SPPs, and the electromagnetic field localization in the near-field vicinity of a chain.

Surface plasmon polaritons in curved chains of metal ...

amplitude), the polarization conversion due to coupling of orthogonally polarized SPPs, and the electromagnetic field localization in the near-field vicinity of a chain. DOI:

10.1103/PhysRevB.90.075405 PACS number(s):

78.67.Bf,42.82.Et,71.45.Gm,42.25.Bs I. INTRODUCTION Surface plasmon polaritons (SPPs) that can be excited

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Surface plasmon polaritons in curved chains of metal ...

1. Introduction Surface plasmon polaritons (SPPs), the electromagnetic waves coupled to charge excitations on the surface of metal, are widely applied in sub-wavelength-scale optical processing [1]. Because of the breakthrough of the diffraction limit and the ultra-compact mode confinement, SPPs have become

Electrical Phase Control Based on Graphene Surface Plasmon ...

1. Introduction. Surface plasmon polaritons (SPPs) are propagating surface modes on the interface of metal and dielectrics in visible and near-infrared wavelengths . Since the fields decay exponentially in pace with distance away from the interface while propagating along the interface, the SPP modes exhibit highly confined property.

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Controlling rejections of spoof surface plasmon polaritons

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