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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
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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.

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

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When ω < ω P, the permittivity of metal ε M is real and negative. 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 ...

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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

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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

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 di raction limit and the ultra-compact mode confinement, SPPs have become

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