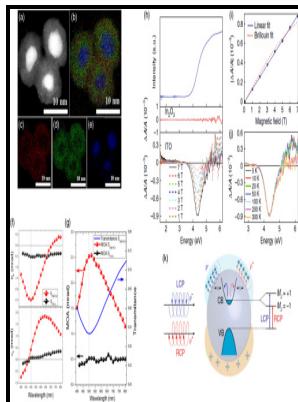


# Advanced methods of observing surface plasmon polaritons and magnons.

University of Salford - Surface Plasmon



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-Advanced methods of observing surface plasmon polaritons and magnons.

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## Polaritons

Gene probes can be made of either DNA or RNA and typically contain anywhere from 25 bases nucleotides to 10 kilobases.

## Ring grating

The current carried by charges in graphene can be considered to be perfectly localized at the interface of the media, which also provides an effective interaction of drift current and a surface wave. Therefore our results should be extended to exploit exciton-exciton interactions through saturation and Coulomb forces, which also can find application for photonics using optical lattices.

## Advanced experimental methods toward understanding biophysicochemical interactions of interfacial biomolecules by using sum frequency generation vibrational spectroscopy

Here, however, the authors present the concept of n o n r e c i p r o c a l phased-array antennas, and demonstrate that such structures significantly extend the functionalities of common arrays by efficiently enabling independent, dynamic control of transmitted and received radiation patterns at the same operating frequency. This study provides practical insight for the development of broadband time-varying metasurfaces, and their applications.

## A Short Review on Surface Plasmon Polaritons (SPPs) and Its Applications

The authors show theoretically and numerically that superparamagnetic nanomagnets can be used to generate random numbers on a subnanosecond time scale.

## Polaritons

SPP modes supported by an individual metal-dielectric interface, usually called simply SPPs, can be viewed as consisting of two evanescent waves decaying exponentially into both neighboring media Fig. An SFG study of interfacial amino acids at the hydrophilic SiO<sub>2</sub> and hydrophobic

deuterated polystyrene surfaces.

### **Ring grating**

They also provide a set of limits for the angular selectivity that can be achieved with the considered geometry.

### **Innovative antimicrobial susceptibility testing method using surface plasmon resonance**

We experimentally demonstrated the strong coupling between a microwave cavity and standing magnetostatic magnon modes in a yttrium iron garnet film. Mathematically this means that The properties of the transmission spectra calculated according to Eq. Radiating atoms in confined space: From spontaneous emission to micromasers.

### **[PDF] Optical and electrical mappings of surface plasmon cavity modes**

Efficient production of formic acid by simultaneous photoreduction of bicarbonate and oxidation of glycerol on gold-TiO<sub>2</sub> composite under solar light.

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