

Design and characteristic analysis of an all-optical AND, XOR, and XNOR Y-shaped MIM waveguide for high-speed information processing

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All-optical logic gates are exceptionally suited for Boolean ultrahigh-speed operation and logical computing. This study presents a plasmonic model that uses a Y-shaped metal-insulator-metal waveguide structure that realizes the ultrafast all-optical AND, XOR, and XNOR gate operation that is developed at a footprint of $6.6\ \mu\text{m} \times 3.4\ \mu\text{m}$ with a wavelength of $1.55\ \mu\text{m}$. This construction relies on the notion of linear interference. The insertion loss and extinction ratio of the model are observed as 1.49 dB and 21.49 dB for AND, 1.03 dB and 18.97 dB for XOR, and 2.06 dB, and 10.92 dB for XNOR, respectively. The transmission efficiency, response time, and speed of the structure also are calculated and are used to improve the performance of any complex circuit in the future. The theoretical analysis of the proposed structure is carried out using the finite-difference time-domain method. © 2022 Optica Publishing Group

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1. INTRODUCTION

The semiconductor industry has made enormous progress during the last few decades creating smaller, quicker, and more potent electronic devices, despite limits in low switching time, high input power, high power dissipation, limited bandwidth, and connectivity delays [1,2]. To overcome these limits, optical communications emerged and rapidly gained popularity because it replaced electrons with photons to transmit information [3]. Because of its enormous operational bandwidth, minimal electromagnetic interference (EMI), rapid speed, and massive data transmission capability, optics outperforms electronic systems [4,5]. As a result, optical circuits are seen as very bright prospects for signal transmission and processing, which can provide promising solutions [6].

Electronics or photonics are the most commonly used technologies in communications systems [7]. However, both face limitations in terms of speed and miniaturization [8,9]. As a result, researchers are developing a new technology called plasmonics [10]. The term plasmonics comes from plasmons, which are quanta linked with collective excitation of unpaired electrons in metals. Plasmonics is a technique used to compress

electromagnetic waves into tiny structures, which could lead to a new generation of ultrafast computer circuits and ultrasensitive detectors [11]. Surface plasmon polaritons (SPPs) are generated, manipulated, and detected through the science of plasmonics, which avoids the diffraction limit found in photonics [12]. Plasmonics allow light to be manipulated at subwavelength scales, potentially bridging the gap between traditional optics and nanoelectronics. Plasmon waves operate at optical frequencies that are a million times greater than the frequency of an electronic microprocessor. The higher the frequency of the wave, the more information we can transport [10–12]. Loss inside SPs has inhibited the use of plasmonics; however, this has been addressed by employing multiple waveguides serving as a metal-insulator-metal (MIM) structure [13–16], or a metal-dielectric and insulator-metal-insulator (IMI) structure [17]. Only MIMs have the strength to confine light to deep subwavelengths and route light at the nanoscale. MIM is combined with a variety of nanocavities to create all-optical tiny switching devices.

Logic gates are the crucial tenets in all digital devices. A Mach-Zehnder interferometer (MZI) based on a semiconductor optical amplifier (SOA) and a MZI based on lithium-niobate LiNbO_3 were used to build logic gates. Electrical signals are

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web sep 23 2019 la viande de sanglier est délicieuse goûteuse et peu onéreuse elle est facile à trouver en saison avec des qualités nutritionnelles exceptionnelles il y a mille façons de les accommoder pour une cuisine du quotidien autant que festive

recettes de sanglier la sélection de 750g - Mar 31 2022

web recettes de rôti de sanglier sanglier sanglier le sanglier est apprécié pour son goût prononcé à marier en terrine ragoût rôti ou civet a servir avec un bordeaux ou un bourgogne

sauté de sanglier recette de sauté de sanglier marmiton - Aug 04 2022

web pour la cuisson 2 c à s d huile d olive 1 c à s de farine sel poivre pour la marinade 5 cl de vinaigre balsamique 5 cl d huile d olive 2 carottes en rondelles 4 clous de girofle 10 grains de poivre 1 belle branche de thym 1 feuille de laurier 1 bouteille de vin rouge corsé 1

comment cuisiner le sanglier marie claire - Sep 05 2022

web conseils pour cuisiner comment cuisiner le sanglier par internaute cvf meilleure réponse par nos experts par maurice brulot la terrine de sanglier se fait sur plusieurs jours dans un