

Dual dynamically tunable terahertz graphene-based plasmonic induced transparency and slow light effects

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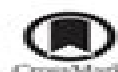
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Abstract

A novel single-layer graphene-based structure is designed in this article. This structure consists of two graphene strips and two graphene blocks. The components of this structure generate two bright modes and one dark mode in the terahertz region, and these three modes undergo destructive interference, leading to the phenomenon of double plasmonic induced transparency. The graphene of this structure has continuity, and the Fermi level can be adjusted by adjusting the bias voltage applied to the structure. Compared with those discontinuous structures, it is easier to achieve tuning function. The structure uses the finite-difference time-domain for data simulation, uses the coupled mode theory for theoretic calculation, and compares the transmission spectra obtained by the two methods. Through observation, it can be found that the frequency positions of the peaks and dips of the simulated transmission spectrum increase with the increase of the Fermi level, showing a perfect linear relationship, which indicates that this structure has great prospects in the modulator. In addition, the structure has achieved good results in the slow light effect, and after measurement, the peak values of group index and group delay can reach up to 380 and 0.241 ps, respectively. By utilizing these advantages, this structure can provide more possibilities for the development and research of slow light fields.

Keywords: plasmonics, metamaterials, integrated optics devices

1. Introduction

In recent years, with the increasing attention and understanding of researchers on metamaterial, graphene has entered the vision of researchers [1–4]. Graphene has the advantages of high electrical conductivity, long lifetime plasmon excitation, low loss, and easy modulation [5, 6], thus is widely used in optics [7–10], materials science [11–13], micro/nano processing [14, 15], energy [16] and other fields. With the

deepening of research, scientists have found that single-layer graphene exhibits similar properties to metals in the terahertz band, and can successfully excite surface plasmons polaritons. Graphene-based metasurfaces can also achieve plasmonic induced transparency (PIT) phenomena. The traditional electromagnetic induced transparency (EIT) [17] effect is a typical quantum coherent effect, which essentially prevents atoms at the atomic level from participating in the coupling of light under the action of the coupling field, thereby gradually reducing the absorption of weak probe light by the medium and even making it completely transparent. And PIT is a phenomenon similar to EIT that occurs at the resonant frequency

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New Horizon of Plasmonics and Metamaterials Masafumi Kimata, Shinpei Ogawa, 2020-06-25 Plasmonics and metamaterials are growing fields that consistently produce new technologies for controlling electromagnetic waves Many important advances in both fundamental knowledge and practical applications have been achieved in conjunction with a wide range of materials structures and wavelengths from the ultraviolet to the microwave regions of the spectrum In addition to this remarkable progress across many different fields much of this research shares many of the same underlying principles and therefore significant synergy is expected This Special Issue introduces the recent advances in plasmonics and metamaterials and discusses various applications while addressing a wide range of topics in order to explore the new horizons emerging for such research Camera, 1915 Generalized Optomechanics And Its Applications: Quantum

Optical Properties Of Generalized Optomechanical System Jin-jin Li, Ka-di Zhu, 2013-03-07 A mechanical oscillator coupled to the optical field in a cavity is a typical cavity optomechanical system In our textbook we prepare to introduce the quantum optical properties of optomechanical system i e linear and nonlinear effects Some quantum optical devices based on optomechanical system are also presented in the monograph such as the Kerr modulator quantum optical transistor optomechanical mass sensor and so on But most importantly we extend the idea of typical optomechanical system to coupled mechanical resonator system and demonstrate that the combined two level structure and resonator system can serve as a generalized optomechanical system The quantum optical properties which exist in typical system are also presented in the combined two level structure and resonator system **Western Camera Notes**, 1901 Photonics Léonard

Dobrzyński, Yabin Jin, Abdellatif Akjouj, El Houssaine El Boudouti, Gaetan Leveque, Housni Al-Wahsh, Yan Pennec, Cecile Ghouila-Houri, Abdelkrim Talbi, Bahram Djafari-Rouhani, 2020-11-28 Photonics a volume in the Interface Transmission Tutorial Book series describes the science of photonic transmission properties of the interfaces of composite materials systems and devices The book s authors review the general analysis methods of interface transmission give many examples and apply

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