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Active terahertz metamaterials: Nano-slot antennas on VO<sub>2</sub> thin films. J. S. Kyoung<sup>1</sup>, M. A. Seo<sup>1</sup>, S. M. Koo<sup>2</sup>, (THz) wide spectral range with 10,000:

### **Ultra-broadband terahertz modulation by active**

ultra-broadband THz metamaterial modulator using a silicon- Ultra-Broadband Terahertz Modulation by Active Hybrid Metamaterials M Fig. 1. (a)

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Active Terahertz Metamaterial for Biomedical Applications. Authors: Choudhury, Balamati, Menon, Arya, Mohan Jha, Rakesh

### **Active terahertz quantum-cascade composite**

(CRLH) metamaterial waveguide for terahertz quantum-cascade (QC) Active terahertz quantum-cascade composite right/left-handed metamaterial Amir A

### **Terahertz metamaterials - wikipedia, the free**

Terahertz metamaterials are a new class of little work has focused on the "active" manipulation of the extraordinary optical transmission though it is essential

### **Active metamaterial based terahertz polarimeter**

There has been virtually no polarimetry work at terahertz Active Metamaterial Based Terahertz Polarimeter for Spectroscopic Detection of Chemical and Biological

### **Ieee xplore abstract - active thz metamaterials**

Active THz metamaterials Full Text Sign via carrier injection or depletion in the active semiconductor substrate or frequency control,

### **Active terahertz metamaterials | spie newsroom:**

Incorporating superconducting and semiconducting elements into electromagnetic metamaterials can achieve active Biomedical Optics & Medical Active terahertz

### **Embedded hemt/ metamaterial composite devices for**

for Active Terahertz Modulation Saroj Rout<sup>1</sup>, Although the application of metamaterial in the terahertz domain has been largely successful, the use of

### **Active terahertz metamaterials - springer**

We have developed a series of planar metamaterials operating at THz frequencies, Active terahertz metamaterials Biomedical Sciences;

### **Scitech connect: active terahertz metamaterials**

Active terahertz metamaterials. We demonstrate planar terahertz metamaterial devices enabling actively controllable transmission amplitude, phase, or

### **Letters - home | boston university physics**

LETTERS Active terahertz metamaterial devices Hou-Tong Chen<sup>1\*</sup>, Willie J. Padilla<sup>1\*{</sup>, Joshua M. O. Zide<sup>2</sup>, Arthur C. Gossard<sup>2</sup>, Antoinette J. Taylor<sup>1</sup> & Richard D. Averitt<sup>1</sup>

### **Hou-tong chen - google scholar citations**

Active terahertz metamaterial devices. HT Chen, WJ Padilla, JMO Zide, Terahertz Metamaterials for Linear Polarization Conversion and Anomalous Refraction.

### **Williams group page - university of california,**

We report the first THz active composite right Prof. Williams wins NSF Our upcoming talk on active THz metamaterial waveguides at SPIE Defense

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### **Active terahertz waveguides based on**

Biomedical Optics & Medical Active terahertz waveguides based on transmission-line metamaterials. The dielectric of this transmission line is made up of

### **Ieee xplore abstract - active terahertz**

We present a series of novel THz metamaterials with designed active functionality, frequency and polarization state of a THz wave.

### **Metamaterial - wikipedia, the free encyclopedia**

Terahertz metamaterials interact at terahertz frequencies, usually defined as 0.1 to 10 THz. Terahertz radiation lies at the far end of the infrared band,

### **Active terahertz metamaterials based on the phase**

or phase of the resonance for achieving active metamaterial Photoinduced active terahertz metamaterials with nanostructured vanadium dioxide deposited

### **Study on active terahertz metamaterials**

Study on Active Terahertz Metamaterials. terahertz radiation sources and modulators formed by active metamaterials made with the grantee's original

### **Metamaterial based circuits and devices for**

MEMS, NEMS, Photonics, Metamaterials, Biomedical Metamaterial inspired terahertz amplitude in metamaterials using active devices was also

### **Supplementary information for active terahertz**

Active terahertz metamaterial devices Supplementary Figure 1: Current voltage (I-V) THz signal was recorded in time domain with a lock-

### **Active terahertz metamaterials - springer**

destructive detection, spectroscopy, biomedical imag ACTIVE TERAHERTZ METAMATERIALS 839 demonstrated that our active THz metamaterials are

### **Active control of electromagnetically induced**

transparency analogue in terahertz metamaterials Jianqiang Gu1,\*, Ranjan singh2,\*, For this purpose, an active metamaterial is a promising candidate.

### **Patent us7826504 - active terahertz metamaterial**

The approach presented here for active THz metamaterials naturally extends to magnetically resonant metamaterials. Finally,

### **Spie | proceeding | terahertz metamaterials for**

Journal of Biomedical Optics; Arthur C. Gossard, et al. "Terahertz metamaterials for active, tunable, and dynamic devices", Proc. SPIE 6581, Metamaterials II,

### **Osa | complementary planar terahertz metamaterials**

Biomedical Optics Express; A. C. Gossard, A. J. Taylor, and R. D. Averitt, "Active terahertz metamaterial devices," Nature 444, 597-600 (2006). [CrossRef]

### **Terahertz qc-lasers and active metamaterial**

Journal of Biomedical Optics; (QC) lasers are well suited for the exploration of active metamaterial concepts in the terahertz frequency range.

### **Osa | active terahertz metamaterials**

Biomedical Optics Express; "Active Terahertz Metamaterials," in Frontiers in Optics 2009/Laser Science XXV/Fall 2009 OSA Optics & Photonics Technical

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