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LETTERS Active terahertz metamaterial devices Hou-Tong Chen^{1*}, Willie J. Padilla^{1*}{, Joshua M. O. Zide², Arthur C. Gossard², Antoinette J. Taylor¹ & Richard D. Averitt¹

Active terahertz metamaterial for biomedical

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

Metamaterial based circuits and devices for

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

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.

Active terahertz metamaterials - springer

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

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,

Active terahertz metamaterials | spie newsroom:

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

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 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

Embedded hemt/ metamaterial composite devices for

for Active Terahertz Modulation Saroj Rout¹, Although the application of metamaterial in the terahertz domain has been largely successful, the use of

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

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

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.

Active terahertz quantum-cascade composite

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

Active terahertz metamaterials: nano-slot

Active terahertz metamaterials: Nano-slot antennas on VO₂ thin films. J. S. Kyoung¹, M. A. Seo¹, S. M. Koo², (THz) wide spectral range with 10,000:

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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

Patent us7826504 - active terahertz metamaterial

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

Active terahertz metamaterials - springer

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

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 control of electromagnetically induced

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

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-

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

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

Scitech connect: active terahertz metamaterials

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

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)

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]

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

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.

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