

Accession number:20122515127465

Title:Realization of variable three-dimensional terahertz metamaterial tubes for passive resonance tunability

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Source title:Advanced Materials

Abbreviated source title:Adv Mater

Volume:24

Issue:23

Issue date:June 19, 2012

Publication year:2012

Pages:OP143-OP147

Language:English

ISSN:09359648

E-ISSN:15214095

CODEN:ADVMEW

Document type:Journal article (JA)

Publisher:Wiley-VCH Verlag, Buhringstrasse 10, Berlin, D-13086, Germany

Abstract:A three-dimensional metamaterial tube is fabricated by rolling up 2D metamaterials on flexible PEN substrate. This novel 3D design of metamaterials can be used to effectively tune the resonance frequency by varying its diameter. Meanwhile, it can also be applied in material identification with a solid-core metamaterials tube. Copyright &copy; 2012 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.

Number of references:22

Main heading:Metamaterials

Controlled terms:Three dimensional - Tubes (components)

Uncontrolled terms:3D design - Material identification - Resonance frequencies - Rolling up - sensing - Tera Hertz - Tunabilities

Classification code:616.1 Heat Exchange Equipment and Components - 902.1 Engineering Graphics - 951 Materials Science

DOI:10.1002/adma.201104575

Database:Compendex

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