479
Accession number:WOS:000308598300009
Title:Fiber-drawn double split ring resonators in the terahertz range
Authors:Singh, N. (1); Tuniz, A. (1); Lwin, R. (1); Atakaramians, S. (1); Argyros, A. (1); Fleming, S.C. (1); Kuhlmey, B.T. (1)
Author affiliation: (1) Univ Sydney, Sch Phys, IPOS, Sydney, NSW 2006, Australia
Source title:OPTICAL MATERIALS EXPRESS
Abbreviated source title:OPT MATER EXPRESS
Volume:2
Issue:9
Issue date:SEP 1 2012
Pages:1254-1259
Language:English
ISSN:2159-3930
Document type:Article
Publisher:OPTICAL SOC AMER,2010 MASSACHUSETTS AVE NW, WASHINGTON, DC 20036 USA
Abstract:We present a novel method for producing metamaterials based on double split ring resonators with a magnetic resonance at terahertz (THz) frequencies. The resonators were made by fiber drawing, a scalable method capable of producing large volumes of metamaterials, demonstrating that this technique can be extended to complex meta-atoms. The observed resonances occur at larger wavelengths relative to the resonator size, compared to single split ring resonators, and are in good agreement with simulations. (c) 2012 Optical Society of America
Number of references:30
Main heading:Materials Science; Optic