256
Accession number:20124315591233
Title:Inelastic light scattering from terahertz standing waves in a slab waveguide
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Source title:Journal of the Optical Society of America B: Optical Physics
Abbreviated source title:J Opt Soc Am B
Volume:29
Issue:10
Issue date:October 1, 2012
Publication year:2012
Pages:2834-2838
Language:English
ISSN:07403224
CODEN:JOBPDE
Document type:Journal article (JA)
Publisher:Optical Society of America, 2010 Massachusetts Avenue NW, Washington, DC 20036-1023, United States
Abstract:Second order, X<inf>(2)</inf> nonlinear mixing of optical and terahertz (THz) radiation is enhanced by phase matching by the spatial distribution of THz standing waves in a slab waveguide. The interference pattern due to selectively excited waveguide modes is thus detected and modeled along a crystal slab waveguide. © 2012 Optical Society of America.
Number of references:16
Main heading:Terahertz waves
Controlled terms:Elastic waves - Waveguides - Waves
Uncontrolled terms:Crystal slab - Inelastic light scattering - Interference patterns - Nonlinear mixing - Second orders - Slab waveguides - Standing wave - Tera Hertz - Terahertz radiation - Waveguide mode
Classification code:711 Electromagnetic Waves - 714.3 Waveguides - 751.1 Acoustic Waves
DOI:10.1364/JOSAB.29.002834
Database:Compendex