735
标题: Terahertz tunable narrow bandpass filter based on photonic crystal cavity
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来源出版物: PHOTONICS AND OPTOELECTRONICS MEETINGS (POEM) 2011: LASER AND TERAHERTZ SCIENCE AND TECHNOLOGY??丛书: Proceedings of SPIE??卷: 8330??文献号: 83300T??DOI: 10.1117/12.918785??出版年: 2012??
在 Web of Science 中的被引频次: 0
被引频次合计: 0
引用的参考文献数: 10
摘要: We have fabricated high quality THz tunable bandpass filters based on one dimensional photonic crystal cavity. The filter have a high quality about 1500 and can have a very narrow passband and the full width at half maximum (FWHM) can be about 200MHz and the peak transmission is higher than -4dB. With the length of cavity adjusted by a motorized linear stage, the central frequency of the filter can be tuned continuously. The bandwidth and insertion loss is also analyzed theoretically.
入藏号: WOS:000304667100026
语种: English
文献类型: Proceedings Paper
会议名称: 4th International Photonics and Optoelectronics Meetings (POEM) - Laser and Terahertz Science and Technology/10th International Conference on Photonics and Imaging in Biology and Medicine (PIBM)
会议日期: NOV 02-05, 2011
会议地点: Wuhan, PEOPLES R CHINA
会议赞助商 : Wuhan Natl Lab Optoelect, Huazhong Univ Sci & Technol, China Hubei Prov Sci & Technol Dept, Wuhan E Lake Natl Innovat Model Zone (Opt Valley China, OVC), Opt Soc, Hubei Prov Foreign Experts Affairs Bur, Natl Nat Sci Fdn Comm (NNSFC)
作者关键词: Terahertz; photonic crystal; filter
KeyWords Plus: RANGE
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出版商: SPIE-INT SOC OPTICAL ENGINEERING
出版商地址: 1000 20TH ST, PO BOX 10, BELLINGHAM, WA 98227-0010 USA
Web of Science 分类: Optics
学科类别: Optics
IDS 号: BAM23
ISSN: 0277-786X
ISBN: 978-0-8194-8987-6
29 字符的来源出版物名称缩写: PROC SPIE
来源出版物页码计数: 5