

708

标题: Extending spectral coverage of BWOs combined with frequency multipliers to 2.6 THz

作者: Fast, D (Fast, Dylan); Hurlbut, W (Hurlbut, Walter); Kozlov, VG (Kozlov, Vladimir G.)

编者: Sadwick LP; OSullivan CM

来源出版物: TERAHERTZ TECHNOLOGY AND APPLICATIONS V??丛书: Proceedings of SPIE??卷: 8261??文献号: 82610L??DOI: 10.1117/12.907496??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: 5

摘要: Solid state frequency multipliers extend the operating frequency range of Backward Wave Oscillators (BWOs) to 2.6 THz, enabling continuously tunable, narrow linewidth THz sources across the 0.1-2.6 THz range. Power conversion efficiency of frequency multipliers can be improved substantially by optimizing impedance matching between millimeter wave BWOs and frequency multipliers. Performance of sub-millimeter wave BWOs combined with frequency multipliers is limited by multi-mode output of these BWOs and lower power conversion efficiency of solid state multipliers operating above 1 THz.

入藏号: WOS:000305073700018

语种: English

文献类型: Proceedings Paper

会议名称: Conference on Terahertz Technology and Applications V

会议日期: JAN 25-26, 2012

会议地点: San Francisco, CA

会议赞助商 : SPIE

作者关键词: BWO; THz; terahertz; MMW-wave; electronic hybrid

地址: [Fast, Dylan; Hurlbut, Walter; Kozlov, Vladimir G.] Microtech Instruments Inc, Eugene, OR 97405 USA

通讯作者地址: Fast, D (通讯作者),Microtech Instruments Inc, 858 W Pk St, Eugene, OR 97405 USA

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: BAP69

ISSN: 0277-786X

ISBN: 978-0-8194-8904-3

29 字符的来源出版物名称缩写: PROC SPIE

来源出版物页码计数: 11