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标题: Singly resonant optical parametric oscillator based on adhesive-free-bonded periodically inverted KTiOPO₄ plates: terahertz generation by mixing a pair of idler waves

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来源出版物: OPTICS LETTERS 卷: 37 期: 7 页: 1283-1285 出版年: APR 1 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: 12

摘要: We implemented a singly resonant optical parametric oscillator based on adhesive-free-bonded periodically inverted KTiOPO₄ plates. It has major advantages such as walk-off compensation and oscillation at four wavelengths. The threshold of the oscillation was measured to be 8 MW/cm², which is about a factor of 4 lower than that based in two separate KTiOPO₄ crystals. By frequency-mixing the dual-wavelength output in GaP stacks, we generated the terahertz radiation at 2.54 THz. The tuning range of the terahertz output was demonstrated to be 2.19-2.77 THz. (C) 2012 Optical Society of America

入藏号: WOS:000302768300050

语种: English

文献类型: Article

KeyWords Plus: MU-M; FREQUENCY

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出版商: OPTICAL SOC AMER

出版商地址: 2010 MASSACHUSETTS AVE NW, WASHINGTON, DC 20036 USA

Web of Science 分类: Optics

学科类别: Optics

IDS 号: 925NP

ISSN: 0146-9592

29 字符的来源出版物名称缩写: OPT LETT

ISO 来源出版物缩写: Opt. Lett.

来源出版物页码计数: 3