

570.

标题: Terahertz Single-Polarization Single-Mode Hollow-Core Fiber Based on Index-Matching Coupling

作者: Hou, Y (Hou, Yu); Fan, F (Fan, Fei); Zhang, H (Zhang, Hao); Wang, XH (Wang, Xiang-Hui); Chang, SJ (Chang, Sheng-Jiang)

来源出版物: IEEE PHOTONICS TECHNOLOGY LETTERS 卷: 24 期: 8 页: 637-639

DOI: 10.1109/LPT.2012.2184747 出版年: APR 15 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: 8

摘要: We have proposed and analyzed a novel terahertz (THz) single-polarization single-mode (SPSM) hollow-core fiber based on the index-matching coupling method. However, its coupling principle is different from the solid-core SPSM fiber. The confinement loss of the index-matched polarization state is increased slightly, while that of the other polarization state is enhanced by nearly two orders of magnitude. In particular, the confinement loss of the index-matched polarization state is only 0.004 dB/m at $f = 1.675$ THz.

入藏号: WOS:000302210800005

语种: English

文献类型: Article

作者关键词: Band gap fiber; index-matching coupling; single-polarization single-mode (SPSM)

KeyWords Plus: PHOTONIC CRYSTAL FIBERS; DESIGN

地址: [Hou, Yu; Fan, Fei; Zhang, Hao; Wang, Xiang-Hui; Chang, Sheng-Jiang] Nankai Univ, Inst Modern Opt, Minist Educ, Tianjin 300071, Peoples R China

通讯作者地址: Hou, Y (通讯作者), Nankai Univ, Inst Modern Opt, Minist Educ, Tianjin 300071, Peoples R China

电子邮件地址: 198468hy@163.com; fanfei@126.com; haozhang@nankai.edu.cn; xhwang@nankai.edu.cn; sjchang@nankai.edu.cn

出版商: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC

出版商地址: 445 HOES LANE, PISCATAWAY, NJ 08855-4141 USA

Web of Science 分类: Engineering, Electrical & Electronic; Optics; Physics, Applied

学科类别: Engineering; Optics; Physics

IDS 号: 917XB

ISSN: 1041-1135

29 字符的来源出版物名称缩写: IEEE PHOTONIC TECH L

ISO 来源出版物缩写: IEEE Photonics Technol. Lett.

来源出版物页码计数: 3