

目 次

• 光纤光学与光通信 •

长距离和多模接入网络中低密度奇偶校验-正交频分复用的性能研究 高扬, 陈林, 余建军(161)

光纤到户用单纤三向复用器芯片的研究 李斌, 乐孜纯, 胡劲华, 任光辉(169)

低损耗大模面积 W 型布喇格光纤 闫培光, 赵健, 郭春雨, 赵俊清, 舒杰, 阮双琛, 李相, 陈胜平(174)

旋转光纤圆起偏器的特性分析 吴明华, 孟义朝(178)

酸溶法光纤传像束材料匹配性设计 崔媛, 周德春, 于凤霞, 谭芳, 杨军(186)

• 光电子学与光电子器件 •

双波长 InGa_N/Ga_N 多量子阱发光二极管的光电特性 陈献文, 吴乾, 李述体, 郑树文, 何苗, 范广涵, 章勇(190)

采用 Li₃N n 型掺杂层作为电子注入层的 OLED 器件研究 崔国宇, 李传南, 李涛, 张睿, 侯晶莹, 赵毅, 刘式墉(194)

一种采用 Li₃N 掺杂电子注入层的底发射倒置结构 OLED 的制备 张睿, 李传南, 李涛, 崔国宇, 侯晶莹, 赵毅, 刘式墉(199)

非晶硅太阳能电池结构模拟设计 何卓铭, 金尚忠, 梁培, 岑松原(204)

• 光学材料 •

纳米银粒子对表面吸附罗丹明 B 的光谱学性质的影响及电解质效应研究 王悦辉, 王婷, 周济(209)

远红外 Ge-Te-AgI 硫卤玻璃光学性能 白坤, 聂秋华, 王训四, 戴世勤, 沈祥, 王国祥(217)

多晶硅表面酸腐蚀制备绒面研究 张发云, 叶建雄(222)

六方相 LaOF 纳米体系中 Sm³⁺/Eu³⁺ 的能量转移效应 伏振兴, 刘碧蕊(227)

• 光子晶体 •

光在一维光子晶体中的全反射贯穿效应 刘启能(232)

• 波导与集成光学 •

零折射率手征包层光纤中导模的奇异特性 董建峰, 李杰, 杨方清(237)

微分相衬成像阵列光源 刘鑫, 郭金川(242)

损耗对串联双微环谐振器滤波特性的影响 刘鑫, 孔梅, 王雷萍(247)

• 光学传感器 •

基于迈克尔逊干涉的光纤弯曲传感器 林巧, 陈柳华, 李书, 吴兴坤(251)

光学式低浓度甲烷气体传感器的研究 王琢, 曹家年, 张可, 冯琳琳(255)

• 薄膜光学 •

刑侦检测光学系统中干涉滤光片的设计与制备 牟鑫, 付秀华, 赵燕, 贾岩(259)

金属薄膜厚度小于电子自由程对其光反射率的影响 林育琼, 冯仕猛, 王坤霞, 顾俊, 刘少军(263)

• 非线性光学 •

非线性介质中会聚高功率激光的焦点位置控制 刘辉, 傅喜果, 侯彦超(267)

延迟光反馈 VCSEL 的混沌动力学特性 谭建锋, 张胜海, 王伟, 赵振华(272)

• 光生物学与医用光学 •

大鼠创伤性脑水肿模型中近红外光有效检测深度研究 王雷娜, 李魁韬, 钱志余, 王新增(277)

渗透胁迫下萌发小麦种子超弱光子辐射的变化及意义 李少华, 刁岗, 樊琳琳, 刘锴(282)

• 红外 •

隐身飞机尾焰的红外辐射特性 宗靖国, 张建奇, 刘德连(289)

基于多小波变换的红外目标探测与识别 陈方涵, 王文生, 杨坤, 郭霏(295)

• 全息与光信息处理 •

数字全息显微系统结构参量对再现像质的影响 马利红,王辉,李勇,邓丽军(300)

• 量子信息 •

基于六粒子纠缠态和 Bell 态测量的量子信息分离(英文) 李洲华,刘俊昌,聂义友(307)

• 图像与信号处理 •

基于结构相似度与感兴趣区域的图像融合评价方法 张勇,金伟其(311)

基于聚类的自适应图像稀疏表示算法及其应用 徐健,常志国(316)

• 凝聚态物理 •

AlB_n^+ ($n=2\sim 10$) 团簇结构和红外振动光谱研究 李莉莎,刘甫,孙久雨,何金龙,张冯望东,王俊斐,姜振益(321)

本刊已加入《中国期刊全文数据库》、《万方数据-数据库期刊群》、《中国期刊网》、《中国光学期刊网》和《中文科技期刊数据库》等。凡被本刊录用的稿件将同时通过因特网进行网络出版或提供信息服务。未经《光子学报》编辑部许可,任何人、任何单位不能以任何形式转载、摘编本刊所刊载的作品。

期刊基本参数:CN61-1235/O4 * 1972 * M * 16 * 160 * zh+en * P * 35.00 * 850 * 31 * 2011-02

Contents

• Fiber Optics and Optical Communication •

- Performances of Low-density Parity-check Coded Orthogonal Frequency Division Multiplexing in Long Reach and Multi-mode Fiber Access Networks GAO Yang, CHEN Lin, YU Jian-jun(161)
- Triplexer Chips for FTTH LI Bin, LE Zi-chun, HU Jin-hua, REN Guang-hui(169)
- Low-loss Large Mode Area Bragg Fiber with a W-shape Core YAN Pei-guang, ZHAO Jian, GUO Chun-yu, ZHAO Jun-qing, SHU Jie, RUAN Shuang-chen, LI Xiang, CHEN Sheng-ping(174)
- Characteristics Analysis of Spun Fiber Circular Polarizer WU Ming-hua, MENG Yi-chao(178)
- Matching Design of Optical Fiber Image Bundle by Acid-leaching Technique CUI Yuan, ZHOU Dechun, YU Feng-xia, TAN Fang, YANG Jun(186)

• Optoelectronics and Photoelectric Device •

- Optoelectronic Properties of Dual-wavelength InGaN/GaN Multi-quantum Well Light-emitting Diodes ... CHEN Xian-wen, WU Qian, LI Shu-ti, ZHENG Shu-wen, HE Miao, FAN Guang-han, ZHANG Yong(190)
- Organic Light-emitting Device with Li_3N n-type Doped Electron Injecting Layer CUI Guo-yu, LI Chuan-nan, LI Tao, ZHANG Rui, HOU Jing-ying, ZHAO Yi, LIU Shi-yong(194)
- Fabrication of Inverted Bottom Organic Light-emitting Device with Li_3N n-type Doping Electron Injecting Layer ZHANG Rui, LI Chuan-nan, LI Tao, HOU Jing-ying, ZHAO Yi, LIU Shi-yong(199)
- Structural Simulations of Amorphous Silicon Solar Cells HE Zhuo-ming, JIN Shang-zhong, LIANG Pei, CEN Song-yuan(204)

• Optical Material •

- Effects of Silver Nanoparticles on Spectroscopy Properties of Rhodamine B and Electrolyte Effect WANG Yue-hui, WANG Ting, ZHOU Ji(209)
- Optical Properties of Ge-Te-AgI Far Infrared Chalco-halide Glasses BAI Kun, NIE Qiu-hua, WANG Xun-Si, DAI Shi-xun, SHEN Xiang, WANG Guo-xiang(217)
- Texturing of Multicrystalline Silicon with Acidic Etching ZHANG Fa-yun, YE Jian-xiong(222)
- Energy Transfer Effect of $\text{Sm}^{3+}/\text{Eu}^{3+}$ Co-doped in LaOF Nanocrystals System with Hexagonal Phase FU Zhen-xing, LIU Bi-rui(227)

• Photonic Crystal •

- Total Reflection Through Effect of Light in 1D Photonic Crystal LIU Qi-neng(232)

• Waveguided and Integrated Optics •

- Novel Feature of Guided Modes in the Chiral Nihilty Cladding Fiber DONG Jian-feng, LI Jie, YANG Fang-qing(237)
- Arrayed Source in Differential phase Contrast Imaging LIU Xin, GUO Jin-chuan(242)
- Influence of Loss on Filtering Characteristics of Series Coupled Two-Microring Resonators LIU Xin, KONG Mei, WANG Xue-ping(247)

• Optical Sensors •

- Optical Fiber Bending Sensor Based on Michelson Interferometer LIN Qiao, CHEN Liu-hua, LI Shu, WU Xing-kun(251)
- Optical Low-concentration Methane Gas Sensor WANG Zhuo, CAO Jia-nian, ZHANG Ke-ke, FENG Lin-lin(255)

• Film Optics •

- Design and Manufacture Interference Filter Applied In Criminal Investigation and Test Optical System MU Xin, FU Xiu-hua, ZHAO Yan, JIA Yan(259)

Effects of Film Thickness Less than Electrical Mean Free Path on Reflectivity LIN Yu-qiong, FENG Shi-meng,
WANG Kun-ria, GU Jun, LIU Shao-jun (263)

• Nonlinear Optics •

Control of High-power Laser Focal Position in Nonlinear Media LIU Hui, FU Xi-quan, HOU Yan-chao (267)

Chaotic Dynamic Behaviors of Vertical Cavity Surface Emitting Laser with Delayed Optical Feedback
..... TAN Jian-feng, ZHANG Sheng-hai, WANG Wei, ZHAO Zhen-hua (272)

• Photobiology and Medical Optics •

Near Infrared Effective Detection Depth in Mouse Traumatic Brain Edma Model
..... WANG Xue-na, LI Wei-tao, QIAN Zhi-yu, WANG Xin-zeng (277)

Changes of Ultra-weak Photon Emission of Wheat Seed During Germination and Its Significance under Osmotic Stress
..... LI Shao-hua, XI Gang, FAN Lin-lin, LIU Kai (282)

• Infrared •

Infrared Radiation Characteristics of the Stealth Aircraft ZONG Jing-guo, ZHANG Jian-qi, LIU De-lian (289)

Detection and Recognition of Infrared Target Based on the Multiwavelet Transform
..... CHEN Fang-han, WANG Wen-sheng, YANG Kun, GUO Fei (295)

• Holography and Optical Information Processing •

Effect of System Parameters on the Reconstructed Image Quality in Digital Holographic Microscopy
..... MA Li-hong, WANG Hui, YONG Li, DENG Li-jun (300)

• Quantum Information •

Quantum Information Splitting by Using a Genuinely Entangled Six-qubit State and Bell-state Measurements
..... LI Yuan-hua, LIU Jun-chang, NIE Yi-you (307)

• Image and Signal Processing •

Image Fusion Assessment Method Based on Structural Similarity and Region of Interest ZHANG Yong, JIN Wei-qi (311)

Self-adaptive Image Sparse Representation Algorithm Based on Clustering and Its Application
..... XU Jian, CHANG Zhi-guo (316)

• Condensed Matter Physics •

Theoretical Study of Structure and Infrared Vibration Spectra about AlB_n^+ ($n=2\sim10$) clusters LI Li-sha,
LIU Fu, SUN Jiu-yu, HE Jin-long, ZHANG Feng-wangdong, WANG Jun-fei, JIANG Zhen-yi (321)