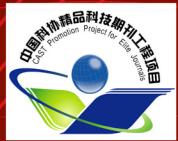




Ei数据库收录期刊
ESCI数据库收录期刊
Elsevier Scopus 数据库收录期刊
中国精品科技期刊
中国精品科技期刊顶尖学术论文
(F5000) 项目来源期刊
中文核心期刊



ISSN 2095-1531
CN 22-1400/04
CODEN ZGHUC8

中国光学

Chinese Optics

5

2020年10月

第13卷 总第72期

中国科学院长春光学精密机械与物理研究所

中国光学学会

主办



期刊网址

中国光学(双月刊)

ZHONGGUO GUANGXUE

第 13 卷 第 5 期 2020 年 10 月

目 次

· 综述 ·

- 氮掺杂碳纳米点的研究进展 李迪^{*}, 孟李, 曲松楠^{*} (899)
光学相干层析成像技术原理及研究进展 陆冬筱, 房文汇, 李玉瑶, 李金华, 王笑军^{*} (919)
古代纸质文物科学检测技术综述 阎春生^{*}, 黄晨, 韩松涛, 韩秀丽, 应超男, 杜远东 (936)

· 原创文章 ·

- 二维线性调频 Z 变换用于光束质量 β 因子计算 王艳茹^{*}, 冉铮惠, 丁宇洁 (965)
表面纳米粒子缺陷的偏振散射特性区分 高萍萍, 陆敏, 王治乐^{*}, 郭继锴, 何晓博 (975)
掺铒光纤 Sagnac 环掺铒光纤放大器增益平坦特性 刘毅^{*}, 郭荣荣, 易小刚, 郑永秋, 陈鹏飞 (988)
光放大器对光载微波信号传输效率的改善 肖永川^{*}, 王超, 张浩, 张亚标, 庾财斌, 瞿鹏飞, 孙力军 (995)
基于介电常数近零态和铟锡氧化物集成硅基波导的电光半加器 梁志勋, 许川佩^{*}, 朱爱军, 胡聪, 杜社会 (1001)
激光多普勒振动信号的时频分析 陈鸿凯, 王挺峰^{*}, 吴世松, 李远洋, 郭劲, 吴浩 (1014)
光斑尺寸对连续激光辐照铝合金温度响应影响研究 文康, 李和章, 马壮^{*}, 高丽红, 王富耻, 李文智 (1023)
基于近红外超连续激光光谱的水稻种子活力无损分级检测研究 金文玲, 曹乃亮, 朱明东, 陈伟, 张佩光, 赵庆磊, 梁静秋, 余应弘, 吕金光^{*}, 阚瑞峰^{*} (1032)
具有复杂光谱特征的丙烯气体的 TDLAS 检测技术研究 钟笠, 宋迪, 焦月, 李晗, 李国林^{*}, 季文海^{*} (1044)

- 多视高分辨率纹理图像与双目三维点云的映射方法..... 杜瑞建, 葛宝臻, 陈雷^{*} (1055)
- 基于压缩感知的三维单分子定位显微成像方法研究
..... 张赛文, 林丹樱, 于斌^{*}, 冷潇冷, 张光富, 田野, 谭伟石 (1065)
- 多参数 Gabor 预处理融合多尺度局部水平集的超声图像分割
..... 陈晓冬^{*}, 盛婧, 杨晋, 蔡怀宇, 金浩 (1075)
- Offner 型凸面光栅宽动态范围辐射定标光源设计..... 徐达^{*}, 岳世新^{*}, 张国玉, 孙高飞, 张健 (1085)
- 大口径空间巡天望远镜子孔径拼接平场定标法..... 逯诗桐, 张天一, 张晓辉^{*} (1094)
- 差动式彩色共聚焦粗糙度评定系统及实验研究..... 邹景武, 余卿^{*}, 程方^{*} (1103)
- 变温下材料表面近红外双向反射分布函数的测量研究..... 马王杰慧, 刘彦磊, 陈志影, 刘玉芳^{*} (1115)
- 基于配准的机载红外非均匀性校正技术应用..... 吕宝林, 佟首峰^{*}, 徐伟^{*}, 冯钦评, 王德江^{*} (1124)
- 八度卷积和双向门控循环单元结合的 X 光安检图像分类
..... 吴海滨, 魏喜盈, 王爱丽^{*}, 岩堀祐之 (1138)
- 兼具反射和透射模式的共振波导光栅滤波器的设计..... 樊丽娜, 马军山^{*} (1147)
- 单一稀土激活剂离子的正交上转换发光特性..... 凌枭, 梅青松^{*} (1158)

Chinese Optics

(Bimonthly)

Vol. 13 No. 5 Oct. 2020

Contents

Reviews

- Research progress on nitrogen-doped carbon nanodots *LI Di**, *MENG Li*, *QU Song-nan** (899)

- Optical coherence tomography: principles and recent developments *LU Dong-xiao*, *FANG Wen-hui*, *LI Yu-yao*, *LI Jin-hua*, *WANG Xiao-jun** (919)

- Review on scientific detection technologies for ancient paper relics *YAN Chun-sheng**, *HUANG Chen*, *HAN Song-tao*, *HAN Xiu-li*, *YING Chao-nan*, *DU Yuan-dong* (936)

Original Article

- Beam quality β factor calculation based on two-dimensional chirp Z transformation *WANG Yan-ru**, *RAN Zheng-hui*, *DING Yu-jie* (965)

- Differentiation of polarization scattering characteristics of surface nanoparticle defects *GAO Ping-ping*, *LU Min*, *WANG Zhi-le**, *GUO Ji-kai*, *HE Xiao-bo* (975)

- Erbium-doped fiber amplifier gain-flatness of a Sagnac loop with an erbium-doped fiber *LIU Yi**, *GUO Rong-rong*, *YI Xiao-gang*, *ZHENG Yong-qiu*, *CHEN Peng-fei* (988)

- Improvement of transmission efficiency in microwave photonic links using EDFA *XIAO Yong-chuan**, *WANG Chao*, *ZHANG Hao*,
ZHANG Ya-biao, *YU Cai-bin*, *QU Peng-fei*, *SUN Li-jun* (995)

- Integrated silicon waveguide electro-optic half-adder based on Epsilon-Near-Zero and ITO *LIANG Zhi-xun*, *XU Chuan-pei**, *ZHU Ai-jun*, *HU Cong*, *DU She-hui* (1001)

- Time-frequency analysis of laser doppler radar vibration signals *CHEN Hong-kai*, *WANG Ting-feng**, *WU Shi-song*, *LI Yuan-yang*, *GUO Jin*, *WU Hao* (1014)

- Effects of spot size on the temperature response of an aluminum alloy irradiated by a continuous laser *WEN Kang*, *LI He-zhang*, *MA Zhuang**, *GAO Li-hong*, *WANG Fu-chi*, *LI Wen-zhi* (1023)

- Nondestructive grading test of rice seed activity using near infrared super-continuum laser spectrum *JIN Wen-ling*, *CAO Nai-liang*, *ZHU Ming-dong*, *CHEN Wei*,
ZHANG Pei-guang, *ZHAO Qing-lei*, *LIANG Jing-qiu*, *YU Ying-hong*, *LV Jin-guang**, *KAN Rui-feng** (1032)

TDLAS detection of propylene with complex spectral features

..... ZHONG Li, SONG Di, JIAO Yue, LI Han, LI Guo-lin*, JI Wen-hai* (1044)

Texture mapping of multi-view high-resolution images and binocular 3D point clouds

..... DU Rui-jian, GE Bao-zhen, CHEN Lei* (1055)

Three-dimensional single-molecule localization microscopy imaging based on compressed sensing

ZHANG Sai-wen, LIN Dan-ying, YU Bin*, LENG Xiao-ling, ZHANG Guang-fu, TIAN Ye, TAN Wei-shi (1065)

Ultrasound image segmentation based on a multi-parameter Gabor filter and multiscale local level set method

..... CHEN Xiao-dong*, SHENG Jing, YANG Jin, CAI Huai-yu, JIN Hao (1075)

Design of an Offner convex grating radiation calibration light source with a wide dynamic range

..... XU Da*, YUE Shi-xin*, ZHANG Guo-yu, SUN Gao-fei, ZHANG Jian (1085)

Flat-field calibration method for large diameter survey mirror aperture splicing

..... LU Shi-tong, ZHANG Tian-yi, ZHANG Xiao-hui* (1094)

Differential chromatic confocal roughness evaluation system and experimental research

..... ZOU Jing-wu, YU Qing*, CHENG Fang* (1103)

Near-infrared BRDF of material surfaces at varying temperatures

..... MA Wang-jiehui, LIU Yan-lei, CHEN Zhi-ying, LIU Yu-fang* (1115)

Non-uniformity correction of airborne infrared detection system based on inter-frame registration

..... LV Bao-lin, TONG Shou-feng*, XU Wei*, FENG Qin-ping, WANG De-jiang* (1124)

X-ray security inspection images classification combined octave convolution and bidirectional GRU

..... WU Hai-bin, WEI Xi-ying, WANG Ai-li*, YUJI Iwahori (1138)

Design of resonant waveguide grating filter with reflection and transmission modes

..... FAN Li-na, MA Jun-shan* (1147)

Orthogonal luminescence properties of a single rare-earth activator ion doped upconversion nanoparticles

..... LING Xiao, MEI Qing-song* (1158)