

目 次

• 综述与评述 •

舰载激光武器的研制进展 ..... 易亨瑜 齐 予 黄吉金(834)

• 激光材料和光学元件 •

多段 Lyot 光纤消偏器研究 ..... 周柯江 朱敬礼 魏 兵等(741)

TiO<sub>2</sub> 薄膜的宽光谱特性椭偏法研究 ..... 唐帆斌 肖 峻 马 孜(776)

HfO<sub>2</sub>/SiO<sub>2</sub> 高反射薄膜的应力控制技术研究 ..... 邱服民 王 刚 戴红玲等(785)

基于拉锥光纤优化的光纤环境滤波器特性研究 ..... 吴雪梅 董兴法 姜 莉等(824)

基于热效应飞秒激光诱导 LiNbO<sub>3</sub> 表面结构的研究 ..... 冯 杰 范宗学 单常亮等(869)

• 激光物理与激光器件 •

飞秒激光结合啁啾太赫兹脉冲控制 CO 分子取向 ..... 杨明惠 金 琪 刘劲松等(735)

激光器对光电振荡器相位噪声的影响 ..... 石英亮 张 羽 孙力军(761)

高重频风冷声光调 Q 光纤激光器实验研究 ..... 陈鹏飞 伍 波 沈琪皓等(780)

• 激光与光电子技术应用 •

纳秒和飞秒激光烧蚀单晶硅的超快诊断 ..... 田润妮 王俊波 邱 荣等(765)

电场干扰对光学电压互感器性能的影响 ..... 赵一男 郭志忠(769)

基于热电制冷器温控系统数学建模和参量辨识 ..... 王选择 侯洪洋 翟中生等(789)

机载激光云粒子成像仪研制与校准研究 ..... 曾 星 伍 波 史晓丁等(798)

雪崩光电二极管电外差混频技术及其参量优化 ..... 吴国秀 段发阶 郭浩天(802)

基于直方图统计的云/气溶胶层次查找算法研究 ..... 荣 微 王玉诏(820)

双狭缝扫描法测量激光光束质量 ..... 李 蕾 臧景峰(845)

线能量对奥氏体不锈钢激光焊接质量的影响 ..... 陈俊科 石 岩 倪 聪等(850)

圆形 LED 阵列的光斑发散特性研究 ..... 刘 沁 刘启能(858)

Al-Mg 系铝合金脉冲激光焊接性能影响因素分析 ..... 张继祥 刘凤芝 高 波等(863)

入射角对猫眼光电系统回波光强分布的影响 ..... 滕 渊 和 婷 左 帅(873)

PCFT 光束阵列在海洋湍流中的传输特性 ..... 胥克涛 袁扬胜 冯 霞等(877)

新型绝热微环谐振腔型低功耗硅基调制器的设计 ..... 杨 真(885)

• 光通信与光信息技术 •

基于加权组合核 RX 算法异物检测及其参量选择 ..... 吴香伟 郭宝峰 陈春种等(745)

基于图像处理技术的激光直写导光板网点设计 ..... 张 惜 刘晓东(751)

量子密钥分配系统中非线性偏振耦合的研究 ..... 董颖娣 彭进业(756)

严重离焦状态下的自动聚焦实现 ..... 蒋 涛 左 昉 王灵国(794)

DCT 变换与 DNA 运算相结合的图像压缩加密算法 ..... 徐光宪 徐山强 郭晓娟等(806)

基于粒子群优化的正则化水下图像盲复原 .....	雷选华 孔小健 杨文亮(811)
OPCI 系统不同掺杂截面 EYDFA 增益瞬态的比较 .....	占生宝 闻 军 吴 磊等(815)
基于区域定位与轮廓分割的红外目标检测 .....	张宝华 刘 鹤(840)
聚类分析在分布式光纤振动传感系统中的应用 .....	唐文靖 印新达 闫奇众等(854)
• 光电对抗与强激光技术 •	
激光主动侦测系统探测能力分析 .....	耿天琪 牛燕雄 张 颖等(829)
《激光技术》2015 年总目次 .....	( I ~ IV)

## CONTENTS

CO molecular orientation controlled by combination of chirped THz pulse and femtosecond laser pulse .....	YANG Minghui et al. (735)
Research of multi-section Lyot fiber depolarizer .....	ZHOU Kejiang et al. (741)
Anomaly detection based weighted combination kernel RX algorithm and its parameter selection .....	WU Xiangwei et al. (745)
Design of net dots in laser direct writing light guide plate based on image processing technique .....	ZHANG Xi et al. (751)
Investigation on nonlinear polarization coupling in quantum key distribution .....	DONG Yingdi et al. (756)
Influence of lasers on phase noise of optoelectronic oscillators .....	SHI Yingliang et al. (761)
Ultra-fast diagnosis of monocrystalline silicon ablated by ns and fs laser .....	TIAN Runni et al. (765)
Effect of electric field interference on performance of optical voltage transducers .....	ZHAO Yinan et al. (769)
Study on wide spectrum characteristics of TiO <sub>2</sub> film with ellipsometry .....	TANG Fanbin et al. (776)
Experiment research of high repetition rate acousto-optic Q-switched fiber laser under air cooling .....	CHEN Pengfei et al. (780)
Study on stress controlling technology of HfO <sub>2</sub> /SiO <sub>2</sub> high-refractive coating .....	QIU Fumin et al. (785)
Mathematical modeling and parameter identification of temperature control systems based on thermoelectric coolers .....	WANG Xuanze et al. (789)
Achievement of auto-focusing in severe defocused state .....	JIANG Tao et al. (794)
Study on airborne laser cloud particle imaging probe and its calibration .....	ZENG Xing et al. (798)
Optoelectronic heterodyne mixing and parameter optimization of avalanche photodiodes .....	WU Guoxiu et al. (802)
Image compression-encryption algorithm combined DCT transform with DNA operation .....	XU Guangxian et al. (806)
Regularization blind restoration of underwater images based on particle swarm optimization .....	LEI Xuanhua et al. (811)
Gain transient performance of Er/Yb co-doped fiber amplifiers in optical packet and circuit integrated network .....	ZHAN Shengbao et al. (815)
Study on detection algorithms of cloud/aerosol layers based on histogram statistics .....	RONG Wei et al. (820)
Study on characteristics of fiber loop mirror filters based on tapered fiber optimization .....	WU Xuemei et al. (824)
Analysis of detection capability of active laser detection systems .....	GENG Tianqi et al. (829)
Development of ship-based laser weapons system .....	YI Hengyu et al. (834)
Infrared target detection based on regional location and contour segmentation .....	ZHANG Baohua et al. (840)
Measurement of laser beam quality by means of double-slit scanning method .....	LI Lei et al. (845)
Effect of heat input on welding quality of austenitic stainless steel .....	CHEN Junke et al. (850)
Application of clustering analysis in distributed fiber optical vibration sensing systems .....	TANG Wenjing et al. (854)