

目 次

测试技术

- 基于波长积分双色法的小视场快速温度场测量 李运锋, 黄元昊, 刘亚, 蓝科(1)
基于近红外荧光标记蛋白芯片的多肿瘤标志物联合定量检测技术 ... 王志慧, 项华中, 郑刚, 许颖原(7)

应用技术

- 太赫兹功率探测器高灵敏度调制解调系统设计 赵旋, 董新科, 李欢, 徐杨, 王亚哲(15)
大气悬浮微粒对激光传输透过率的影响研究 陈芳芳, 赵金刚(22)

光学系统

- 近视防控离焦镜片像质评价方法的探讨 缪汉源, 葛澜, 金涛, 项华中, 张大伟, 庄松林(31)

设计与应用

- 双头管封装光纤 Bragg 光栅低温传感试验研究 杨才千, 文峰, 周正, 杨宁, 姚远, 李帅(37)
基于双芯光纤耦合器的高纯度涡旋光产生研究 王乔波, 常敏, 刘学静, 周军(43)
DAST@HP- β -CD 超分子体系溶液的多光子泵浦激射 许川, 蔡斌(51)
氧化锌表面曲率可控纳米周期条纹的飞秒激光制备 罗丞, 李奇松, 王康, 刘一(59)

仪器与装置

- 基于倾斜入射的直角棱镜大面测量装置研究 朱贵博, 王青, 陈巍(65)
基于反射式成像光路的全波段蛋白检测仪的研制 张亚兵, 戴博(72)

综述

- 微流控技术结合光学系统的广泛应用 李小龙, 郑璐璐(79)
激光诱导击穿光谱信号增强技术研究进展 李悦(87)

CONTENTS

TESTING TECHNOLOGY

- A rapid temperature field measurement study based on the integral dual-wavelength radiation thermometry
..... *LI Yunfeng, HUANG Yuanhao, LIU Ya, LAN Ke* (1)
- Combined quantitative detection technology for multiple tumor markers based on near-infrared fluorescent labeled
protein chip *WANG Zhihui, XIANG Huazhong, ZHENG Gang, XU Yingyuan* (7)

APPLICATION TECHNOLOGY

- Design of high sensitivity modulation and demodulation system for terahertz power detector
..... *ZHAO Xuan, DONG Xinke, LI Huan, XU Yang, WANG Yazhe* (15)
- Research on the influence of atmospheric suspended particles on laser transmittance ... *CHEN Fangfang, ZHAO Jingang* (22)

OPTICAL SYSTEM

- Image quality evaluation method of myopia prevention and control defocus lens
..... *MIAO Hanyuan, GE Lan, JIN Tao, XIANG Huazhong, ZHANG Dawei, ZHUANG Songling* (31)

DESIGN AND RESEARCH

- Experimental study on the double-head tube packaging fiber Bragg grating at cryogenic temperature
..... *YANG Caiqian, WEN Feng, ZHOU Zheng, YANG Ning, YAO Yuan, LI Shuai* (37)
- Design of high purity vortex generator based on dual-core fiber coupler
..... *WANG Qiaobo, CHANG Min, LIU Xuejing, ZHOU Jun* (43)
- Multi-photon pump lasing of DAST@HP- β -CD supramolecular aqueous solution *XU Chuan, CAI Bin* (51)
- Fabrication of curvature controlled nano periodic stripes on ZnO surface with femtosecond laser
..... *LUO Cheng, LI Qisong, WANG Kang, LIU Yi* (59)

INSTRUMENTS

- Research on hypotenuse-face measurement method of rectangular-prism based on oblique incidence
..... *ZHU Guibo, WANG Qing, CHEN Wei* (65)
- Development of a full-band protein detection system based on reflective imaging *ZHANG Yabing, DAI Bo* (72)

REVIEW

- Microfluidic technology combined with the wide application of optical systems *LI Xiaolong, ZHENG Lulu* (79)
- Research progress on laser-induced breakdown spectroscopy signal enhancement technology *LI Yue* (87)