

## 目 录

- 染料碰撞脉冲锁模的理论研究 ..... 陈钰涛 刘玉璞 王之江 (65)
- 不对称的环形激光器 ..... 林福成 李世芳 胡企铨 (70)
- 调制光学相干度的激光在光纤中的传播与解调 ..... 董孝义 盛秋琴 (73)
- 若丹明 6G- $\beta$  环糊精水溶液体系光物理特性的研究 ..... 张兴康 陈建新 徐广智 (77)
- 利用表面等离子波观察光学不稳定性 ..... 杨心亮 杨于民 齐继宁 章志鸣 (81)
- 354.7 nm ps 强紫外激光 ..... 董景元 赵庆春 钱林兴 何慧娟 (86)
- 用叶绿素 d 染料的锁模红宝石激光器 ..... 刘一先 李富铭 (89)
- 一种用多束参考光实现多通道全息干涉计量的方法 ..... 陈 颜 (92)
- 表面增强喇曼散射(SERS)光谱中物质吸附性质的研究 .....  
..... 冷永章 顾仁敖 朱涵如 凌德洪 (96)
- 磁光薄膜的干涉增强 ..... 范正修 (99)
- Nd: YAG 激光棒的前向光散射 ..... 金维睦 何 林 (102)
- 测量光学参考腔稳定度的偏振法 ..... 邵中兴 许凤鸣 (105)
- 单周期层栅激光多普勒测振系统的研究 ..... 王宝成 卢杰持 (109)
- 多模厚深波导的快速制作与测试 ..... 阮丽真 徐敬舆 李宝贞 吴慧珍 (113)
- 激光提高鸡蛋、鹌鹑蛋孵化率的研究及其机理初探 .....  
..... 敖秀珠 袁秋兰 葛崇文 李雨润 郭瑞军 乌彦龙 卢冷轶 (116)

### 科学札记

- 自由电子激光器引导场的研制与实验 ..... 施嘉标 潘引年 王 伟 (120)
- 预电离可调气体循环实用化准分子激光器的实验研究 ..... 王华胜 余吟山 吴文洲 (121)
- 杨氏干涉法监测激光波长 ..... 孙海音 梁培辉 王之江 (123)
- 一种实现多通道全息干涉计量的简易方法 ..... 陈 颜 邢英杰 (125)

### 简 讯

- 第一届全国激光针灸学术交流会在威海召开 ..... 吉 禾 (115)
- 激光针灸治疗前列腺炎通过鉴定 ..... 李世瑞 (115)
- 我国空军采用激光模拟训练 ..... 乔天富 纪 钟 (119)
- 串接放大提高可调谐 LiF:F<sub>2</sub> 色心的激光输出 ..... 干成剑 朱卫祖 刘 烈 景毓庄 (127)
- 激光针灸新技术学习班在威海市举行 ..... 李世瑞 (127)
- 微型氙灯通过研究成果鉴定 ..... 文 萍 (127)

## CONTENTS

- Theoretical study on colliding pulse mode-locking of dye lasers .....Chen Jutao et al. (65)
- An asymmetric ring laser .....Lin Fucheng, Li Shifang, Hu Qiquan (70)
- Transmission and demodulation of laser light for modulating optical coherent degree in optical fibers.....Dong Xiaoyi, Sheng Qiuging (73)
- Study on photophysical characteristics of R6G- $\beta$  cyclodextrin system in aqueous solution ..... Zhang Xingkang, Chen Jianxin, Xu Guangzhi (77)
- Observation of optical unstability by SPW technique .....Yang Xinliang et al. (81)
- Powerful ps UV laser output at 354.7 nm .....Dong Jinyuan et al. (86)
- A mode-locked ruby laser with chlorophyll d as saturable absorber .....Liu Yixian, Li Fuming (89)
- A multiplexing technique using multiple reference beams for holographic interferometry ..... Chen Yan (92)
- Experimental investigation on adsorption of some chemicals in SERS spectra..... Leng Yongzhang, Gu Renao, Zhu Hanru, Ling Dehong (96)
- Interference enhancement of magneto-optical effect .....Fan Zhenxiu (99)
- Forward scattering of light in YAG:Nd laser rods.....Jin Weimu, He Lin (102)
- Measuring stability of optical reference cavities by analysing polarization spectrum..... Shao Zhongxing, Xu Fengming (105)
- Study on single periodic layered grating laser Doppler vibrometer.....Wang Baocheng, Lu Jiechi (109)
- Fast processing and measurement of thick multimode optical waveguides..... Ruan Lizhen, Xu Jingyu, Li Baozhen, Wu Huizhen (113)
- Study on improving hatchability and its mechanism of hen eggs and quail eggs by laser irradiation ... Ao Xiuzhu, Yuan Qiulan, Xun Chongwen, Li Yurun, Wu Ruijun, Wu Yanlong, Lu Lingyi (116)

## SCIENCE NOTES

- Pulsed magnet for free electron lasers ..... Shi Jiabiao, Pan Yinnian, Wang Wei (120)
- Experimental study of an adjustable practical preionized excimer laser with cycled-flowing gases ..... Wang Huasheng, Yu Yinshan, Wu Wenzhou (121)
- Laser wavelength monitoring by Young's interference.....Sun Haiyin et al. (123)
- A simple multiplexing technique for holographic interferometry .....Chen Yan, Xing Yingjie (125)

## LETTERS

- The First National Conference on Laser Acupuncture held in Weihai, Shangdong province ..... Ji He (115)
- Therapy of prostatitis with laser acupuncture expertized.....Li Shirui (115)
- Laser simulator training adopted by air force of China .....Qiao Tianfu, Ji Zhong (119)
- Increasing output of tunable LiF:F center laser with amplifiers ..... Gan Chenjiang et al. (127)
- Seminar on laser acupuncture held in Weihai, Shangdong province .....Li Shirui (127)
- Miniature xenon lamp approved .....Wen Ping (127)