

目 录

用透镜阵聚焦实现均匀辐照的计算机分析.....	陈泽尊 梁向春 邓锡铭	(65)
产生高阶相干喇曼辐射的两种不同物理机制的研究.....	赫光生 周福新 刘盾 刘颂豪	(71)
显含谐振腔几何参数的四能级速率方程.....	顾樵	(76)
Smith-Purcell 型自由电子激光器的增益特性.....	张大可	(80)
层状位相光栅的衍射效应及其在测试技术中的应用.....	王宝成	(86)
用 HCD 灯作金属原子蒸气源的激光光谱研究.....	胡企铨 殷立峰 张延平 景春阳 张桂燕 林福成	(91)
用互相关法测定锁模 Ar ⁺ 激光脉冲的形状与宽度.....	关信安 袁树忠 吕福云	(96)
反射、透射谱的快速测定装置.....	王炳奎 李伟德 章志鸣 李瑞镛 盛虞琴	(99)
具有负调整镜的激光准直系统的分析.....	王立新	(104)
磁光石榴石薄膜的光吸收系数.....	刘公强 虞志强 刘湘林	(108)
大电流脉冲方波激光电源.....	薛彬 汪永一 姚建铨	(112)

科学札记

连续 LiF:F ₂ 色心激光器.....	宋哲民 孙军 曹文治 宋林峰	(116)
二氯乙烷的受激喇曼效应.....	孟绍贤 张伟清 康玉英	(118)
用单块瓷体制作大气压氮分子激光器.....	张育川等	(119)
关于光电流光谱分析的条件选择.....	归振兴 王裕民 张顺怡	(121)
LS-II 型氩离子激光稳功率仪.....	袁海林等	(124)
一台高准确度的激光波长计.....	韦占凯等	(126)

简讯

我国钕玻璃激光淬火工艺首次正式用于生产.....	郭大浩等	(70)
激光扫描输液微粒测定仪研制成功.....	于杰	(79)
全国光电子技术交流会及展览会在武汉举行.....	吉禾	(85)
一种提高激光功率稳定性的仪器.....	纪钟	(95)
“激光针灸新方法”通过鉴定.....	田道正	(95)

CHINESE JOURNAL OF LASERS

(Monthly)

Vol. 13 No. 2

(Series No. 110)

February 20, 1986

CONTENTS

Computer analysis by lens array for uniform illumination.....	Chen Zezun, Liang Xiangchun, Deng Ximing	(65)
Study on two physical mechanisms for high order coherent Raman radiation	He Guangsheng, Zhou Fuxin, Liu Dun, Liu Songhao	(71)
Rate equation of four-level systems depending evidently on geometric parameters of cavity	Gu Qiao	(76)
Gain characteristics of free-electron lasers using Smith-Purcell effect	Zhang Dake	(80)
Diffraction of layered phase grating and its application in measurement and test	Wang Baocheng	(86)
Laser spectroscopic study on HCD lamps as a metal atomic vapor source	Hu Qiquan, Yin Lifeng, Zhang Yanping, Zhang Guiyan, Jing Chunyang, Lin Fucheng	(91)
Measurement of shape and width of mode-locked Ar ⁺ laser pulses by cross-correlation method	Guan Xinan, Yuan Shuzhong, Lü Fuyun	(96)
Instrumentation for rapid determination of reflective and transmissive spectra	Wang Bingkui, Li Weide, Zhang Zhiming, Li Ruiyong, Sheng Yuchin	(99)
Analysis of laser collimating system with a negative adjustment lens	Wang Lixing	(104)
Optical absorption coefficient of magneto-optic garnet films	Liu Gongqiang, Yu Zhiqiang, Liu Xianglin	(108)
Large current rectangular pulsed laser power supply	Xue Bin, Wang Yongyi, Yao Jianquan	(112)

SCIENCE NOTES

A CW LiF:F ₂ color center laser.....	Song Zheming, Sun Jun, Cao Wenzhi, Song Lingfeng	(116)
Stimulated Raman effect of dichloroethane.....	Meng Shaonian, Zhang Weiqing, Kang Yuying	(118)
Atmospheric nitrogen laser with a single block of ceramics.....	Zhang Yuchaun et al.	(119)
Selection of conditions for optogalvanic spectral analysis.....	
.....	Gui Zhenxing, Wang Yumin, Zhang Shunyi	(121)
LS-II argon ion gas laser stabilized power meter	Yuan Hailing et al.	(124)
High accuracy laser wavemeter	Feng Taikai et al.	(126)

LETTERS

Nd: glass laser hardening technique used for the first time in instrument manufacture	
.....	Guo Dahao et al.	(70)
A detector for particles of laser scanning transfusion developed	Yu Jie	(79)
National symposium on opto-electronics held in Wuhan	Ji He	(85)
An instrument for improving laser output power stability	Ji Zhong	(95)
“Novel laser acupuncture treatment” expertized	Tian Daozheng	(95)