

中国激光

(月刊)

第十四卷 第八期

(总第 128 期)

1987 年 8 月 20 日出版

目 录

稳定光学谐振腔高斯光束的发散角理论	吕百达 H. Weber	(449)
带电粒子面沟道辐射的混沌行为	邵明珠 罗诗裕 刘曾荣	(456)
光引发脉冲氧碘化学激光器的研究	张荣耀 陈方 宋雪琴 庄琦 张存浩	(460)
片状放大器的静态波象差及对激光束方向性的影响	唐贤忠 郑玉霞 林亚风 余文炎	(464)
用于半导体激光器的柱面扩束系统 Γ 值的确定	陈海清	(467)
密封长寿命千瓦级横流 CO_2 激光器		
.....	陈可心 王哲恩 奚全新 吴东来 奚文龙 王亮 王润文	(470)
XeCl 激光泵浦超短腔染料激光器		
.....	戚张芬 王小异 高淑娟 高福康 傅淑芬 方洪烈 王之江	(473)
YGG:Cr ³⁺ 晶体的激光诱导荧光光谱研究		
.....	文根旺 王麓雅 刘颂豪 季汉庭 叶丽丽 陈俊德	(476)
$\text{C}_4\text{H}_4\text{N}_2$ 、 $\text{C}_4\text{H}_2\text{N}_2$ 和 C_6N_4 分子在 193 nm 处的激光光离解——CN($X^2\Sigma^+$)基的转动能量分布	解笑湘, I. A. McLaren, J. B. Halpern., W. M. Jackson	(480)
PS 激光脉冲感生的热应力双折射	高福源 陈淑琴	(487)
散斑成象过程的频谱分析	顾杰 沈永昭	(490)
利用相位共轭实现单根光纤直接传输图象	孙远坤 王晓春 张以謨	(495)
使用贴置板时毛坯光学玻璃均匀性的全息干涉测量		
.....	周焜 陈祯培 陈远康 朱慧敏 李莉	(499)
新型氮-氖激光全息照相记录介质	梁广和 金章岩	(503)
科学札记		
内腔 He-Ne 激光器光束方向漂移的研究	张春平 张光寅 顾荣 商美茹	(506)
增加紫外预电离火花密度使 XeCl 激光输出能量提高		
.....	姚永邦 马树森 朱筱杰 秦玉英 王广昌 王绍卿	(508)
有耦合孔谐振腔的紫翠宝石激光器的选模特性	张贵芬 李白翎 马笑山	(509)
LiNbO ₃ :Fe 晶体薄片中的光爬行效应	张光寅 武原庆 刘思敏 王进雄	(511)
简讯		
国际激光与应用研讨会在北京举行	黄永楷	(502)

CONTENTS

Theory of Gaussian beam divergence for stable optical resonators.....	<i>Lü Baida, H. Weber</i>	(449)
Chaotic behaviour in planar channeling radiation of charged particles		
.....	<i>Shao Mingzhu, Luo Shiyu, Liu Zengrong</i>	(456)
A photoinitiated pulsed oxygen-iodine chemical laser utilizing CF_3I or CH_3I as iodine atom donors	<i>Zhang Rongyao, Chen Fang, Song Xueqin, Zhuang Qi, Zhang Cunhao</i>	(460)
Statrical aberration in disk amplifiers and its effect on divergence of laser beams.....		
.....	<i>Tang Xianzhong, Zheng Yuxia, Lin Yafeng, Yu Wenyuan</i>	(464)
Determination of beam magnification I' of an afocal cylindrical lens for semiconductor lasers ...		
.....	<i>Chen Haiqin</i>	(467)
A long life-time sealed-off kW level transverse-flow CO_2 laser.....	<i>Chen Kexin,</i>	
<i>Wang Zheen, Xi Quanxin, Wu Donglai, Xi Wenlong, Wang Liang, Wang Runwen</i>		(470)
Ultrashort cavity dye laser pumped by XeCl laser	<i>Qi Zhangfen,</i>	
<i>Wang Xiaoyi, Gao Shujuan, Gao Fukang, Fu Shufen, Fang Honglie, Wang Zhijiang</i>		(473)
Study of laser induced fluorescence spectroscopy of YGG: Cr^{3+} crystals		
.....	<i>Wen Genwang, Wang Luya, Liu Songhao, Ji Hantin, Ye Lili, Chen Junde</i>	(476)
Photo-dissociation of succinonitrile fumaronitrile and tetracyanoet-hylene at 193nm—Rotational distribution of the $\text{CN}(X^2\Sigma^+)$		
.....	<i>Xie Xiaoxiang, I. A. McLaren, J. B. Halpern, W. M. Jackson</i>	(480)
Thermostress birefringence induced by ps laser pulses.....	<i>Gao Fuyuan, Chen Shuqing</i>	(487)
Spatial spectrum analysis of speckle imaging process.....	<i>Gu Jie, Shen Yongzhao</i>	(490)
Direct image transmission through a single optical fiber by optical phase conjugation		
.....	<i>Sun Yuankun, Wang Xiaochun, Zhang Yimo</i>	(495)
Holographic interferometer of homogeneity of optical glass blank by means of SGCP		
.....	<i>Zhou Kun, Chen Zhenpei, Chen Yuankang, Zhu Huimin, Li Li</i>	(499)
A novel holographic recording medium using He-Ne laser light ...	<i>Liang Guanghe, Jin Zhangyan</i>	(503)
SCIENCE NOTES		
~~~~~		
Investigation of beam direction of internal-mirror He-Ne lasers .....		
.....	<i>Zhang Chunping, Zhang Guangyin, Gu Rong, Shang Meiru</i>	(506)
Outputenergy increment from a $\text{XeCl}$ laser by increasing the number of UV preionization sparks .....		
.....	<i>Yao Yongbang, Ma Shusen, Zhu Xiaojie, Qin Yuying, Wang Guangchang, Wang Shaoqing</i>	(508)
Mode selection characters of alexandrite laser with an output coupling aperature .....		
.....	<i>Zhang Guifen, Li Bailin, Ma Xiaoshan</i>	(509)
Light climbing effect in $\text{LiNbO}_3:$ Fe crystals .....		
.....	<i>Zhang Guangyin, Wu Yuanqing, Liu Simin, Wang Jinxiong</i>	(511)
<b>LETTERS</b>		
~~~~~		
International Seminar on Lasers and Applications held in Beijing	<i>Wang Yongkai</i>	(502)