

# 《中国激光》1988年(第15卷,总133~144期)总目录

	期	总期	页		期	总期	页
<div style="border: 1px solid black; padding: 2px; display: inline-block;">综 述</div>							
1987年度中国激光科技发 展一瞥	2	134	65	内腔式 CO <sub>2</sub> 激光器输出支线 的研究	3	135	138
<div style="border: 1px solid black; padding: 2px; display: inline-block;">激光器件</div>				用“最好线性无偏估计法”计 算氦-氖激光管的工作寿 命			
自由电子激光器中的电子运 动	1	133	1	同轴氙灯泵浦下硫酸尼尔蓝 A-咕吨乙醇溶液的激光 输出	3	135	179
可见光化学激光研究 I. 电 子跃迁氟化碘化学激光探 索	1	133	5	单灯双棒红宝石激光器的研 究	3	135	181
微型自由电子激光——电扭 摆器	1	133	9	实用、低成本金蒸气激光器 铜激光泵浦染料激光器腔结 构的实验研究	3	135	183
五组合线共振光激发 NaXI 离子的粒子数反转研究	1	133	12	铜蒸气激光器光束方向性与 它所泵浦的染料激光器的 效率的关系	4	136	184
窄带、高光谱纯度、高效率染 料激光器振荡-放大系统	1	133	47	用于铜蒸气激光器的可饱和 电抗器	4	136	193
高气压连续 CO <sub>2</sub> 激光器的输 出功率	1	133	49	高同步双束 XeCl 准分子激 光器的脉冲加宽	4	136	197
具有轴向磁场的自由电子激 光器中的电子轨道、色散 和增益	2	134	70	横流 CO <sub>2</sub> 激光器中介质的流 速对激活特性的影响	4	136	201
双光子激光器中噪声效应的 半经典理论	2	134	75	CuBr 激光器中溴的作用研 究	4	136	204
光纤陀螺系统中信号光反馈 下的激光光源强度噪声特 性研究	2	134	80	脉冲空心阴极 He-KrII 激 光器工作特性的研究	4	136	207
1kW 无氦横流连续 CO <sub>2</sub> 激 光器的研究	2	134	110	一种高效率的 Oxazine-9 染 料激光器	4	136	211
光泵 S <sub>2</sub> 蓝-绿激光	2	134	112	储存环自由电子激光器的高 次谐波运转特性研究	5	137	219
采用金电极的室温密封 CO 激光器	2	134	115	带有大曲率半径反射镜的六 镜环形腔稳定性的研究	5	137	239
IL 型半导体激光放大器的 噪声	2	134	117	半导体激光器输出光功率的 最佳值	5	137	241
叶绿素分子产生 ps 蓝色激 光发射的研究	3	135	129	连续锁模 Ar <sup>+</sup> 激光器的噪 声特性	5	137	244
混合染料在 N <sub>2</sub> 激光泵浦下 的光辐射	3	135	134	双频染料激光器的相关调谐 原理	5	137	260
				新型的激光 Doppler 测振装			

置	期	期总	页	期	总期	页
钾分子的二步泵浦光离解受激辐射	5	137	276	实验研究	9	141 553
外腔半导体激光器单频输出的长期稳定	5	137	279	半导体激光器阈值电流的精确测量	9	141 555
光泵远红外激光器的饱和效应	5	137	300	铜蒸气激光光束的研究	9	141 558
动态热稳定望远镜腔的充分必要条件	6	138	321	具有非对称高斯反射率相位共轭光腔的基模	10	142 577
铜蒸气激光器模型的计算方法和程序设计	6	138	326	螺旋泵浦场自由电子激光理论	10	142 581
片状固体激光器的基模	6	138	371	KTP 腔内倍频已实现 34 W 绿光的稳定高平均功率输出	10	142 586
根据 Ne 原子的拉卡模型分析 He-Ne 纵向塞曼激光器	6	138	371	振幅螺旋变化周期 Wiggler 磁场的设计及其解析表示	10	142 620
矩形放电管 He-Ne 激光器特性的研究	7	139	385	自聚焦棒外腔单频半导体激光器	11	143 641
输出 10 MW、ns 脉冲的光解碘原子激光振荡-放大系统	7	139	391	650 nm 连续 He-Ne Raman 激光器	11	143 648
半导体激光放大器的理论与实验研究	7	139	400	三色氩镭激光器阴极放电孔径与瞬间跳火的关系	11	143 678
气压对横流 CO <sub>2</sub> 激光器输出的影响	7	139	431	采用非谐振环的碰撞锁模 Ar <sup>+</sup> 激光器	12	144 705
激光器与双稳系统中失谐高斯腔模的稳定性分析	7	139	400	高温 CW 半导体激光器的阈值电流	12	144 707
放电引发脉冲氧碘化学激光器的研究	8	140	449	多元件光学谐振腔的公式化分析方法	12	144 727
由厚靶韧致辐射确定喇曼自由电子激光	8	140	458			
16 μm 仲氢受激喇曼激光器碰撞锁模染料激光器中激光脉冲的啁啾特性及其色散补偿	8	140	455	<b>实验技术与元件</b>		
铜蒸气激光振荡器与放大器中的黄绿光脉冲及其对 R6G 染料激光输出效率的影响	8	140	462	爬山法自适应光学波前校正系统	1	133 17
氦-氟气体激光器的高温玻璃封接技术	8	140	496	光学薄膜的损伤及其累积效应	1	133 22
虚共心腔模式的物理化学分析	9	141	513	双透镜像散光学系统摄制彩虹和像面全息图的像匹配理论	1	133 26
铜激光光脉冲的时间特性	9	141	519	一种检测蛙卵卵裂卵表面运动的荧光图像漂白法	1	133 52
康普顿型自由电子激光器的	9	141	519	多光子电离技术在 NO 与 O <sub>3</sub> 反应动力学研究中的应用	2	134 85
				用光热偏转技术对金属亚表面缺陷成像	2	134 89
				广角大场景全息图光栅结构最高空频表式的理论分析	3	135 141

期	总期	页
用光电流效应研究 $\text{CO}_2$ 分子 $00^0_1$ 和 $10^0_0$ 能级的热弛豫过程	3	135 145
多次曝光散斑干涉法实现光学图像相减	3	135 149
激光等离子体冕区自生磁场的实验研究	3	135 153
用光学方法改善空间转动可变高分辨电子显微像的像质	3	135 156
用条纹相机研究 ps 染料激光器的锁模动力学	3	135 186
用于蚕茧荧光光谱分析的激光实验装置	3	135 187
$\text{CO}_2$ 激光 $00^0_1 \sim 10^0_0$ 跃迁受激发射截面的测量与研究	4	136 221
用脉冲激光激发弹性波	4	136 227
液体中的激光脉冲光声效应和光偏法检测	4	136 231
测量飞秒激光脉冲的实时扫描相关器	4	136 243
利用砷化镓表面的二次谐波测量 ps 激光的脉宽	5	137 283
激光动态精密测微研究	5	137 286
偏振光谱法观察 $\text{Na}_2\text{A}^1\Sigma_u^+ \sim b^3\Pi_u$ 微扰能级的超精细结构	5	137 302
旋转孔径散斑照相法测量动态热形变	5	137 305
激光沉积硅膜的形成和微结构	5	137 306
用平行平板大错位干涉法测量温度场分布	5	137 309
$\text{CO}_2$ 激光腔内声光调制的研究	5	137 311
C-C 转移放电泵浦的 XeCl 准分子激光器的电参量特性	6	138 332
使小功率 He-Ne 激光器获得低噪声稳功率输出的一种新型电子学装置	6	138 336
电子全息术中静电双棱镜偏转特性的简化计算	6	138 341

期	总期	页
使用热电子发射枪进行电子干涉和全息实验	6	138 374
BHA:Cr <sup>3+</sup> 晶体——探索中的一种可调谐激光晶体	7	139 403
Möllenstedt 电子双棱镜稳定性分析	7	139 408
激光晶体 $\text{Y}_3\text{Ga}_5\text{O}_{12}:\text{Cr}^{3+}$ 的 MS-X $\alpha$ 计算	7	139 412
多波段激光防护玻璃的研究	7	139 417
注入型法布里-珀罗腔的衬度增强效应、频谱特性和时间特性	8	140 473
提高渡越辐射强度的一种方法	8	140 477
助熔剂法生长 KTP 晶体的物理化学过程(I)	8	140 482
高灵敏度宽波段激光功率计比率计系统	8	140 497
JK-80 大口径激光能量计	8	140 500
非相干单色光和白光散斑照相	8	140 502
关于等价共焦腔方法的讨论	8	140 504
温梯法生长的 Nd:YAG 晶体的完整性及其激光特性	9	141 522
BHA:Cr <sup>3+</sup> (BeO·3Al <sub>2</sub> O <sub>3</sub> :Cr <sup>3+</sup> ) 晶体的荧光特性	9	141 528
编码位相片的干涉滤色分析	9	141 531
全息位相共轭反射镜	9	141 561
单层高框架结构自振特性的激光全息干涉试验研究	9	141 562
新型电光波片	10	142 590
紫外激光增强电离光谱方法进行火焰中痕量元素的灵敏检测	10	142 623
磁压缩器的设计	10	142 625
对准连续激光电源中斩波器的分析	10	142 627
铊原子激发态自然辐射寿命的测量	10	142 629
超外差光学膜厚的精密测量	11	143 652
激光宽带聚焦系统的研究	11	143 656
一种高压火焰燃烧检测的新技术——异步光学取样法	11	143 680
衍射谱位相恢复——一种测		



	期	总期	页
量像差的新方法	11	143	683
光纤电流传感器的实验系统与性能	12	144	732
KRS-5多晶光纤的研制及10.6 μm损耗	12	144	734
《激光物理与激光化学》			
光纤中受激四光子混频的Stokes与Anti-Stokes光的增益	1	133	30
四波混频非线性效应和腔内各向异性对横向塞曼激光特性及其应用的影响	1	133	37
Doppler-Free红外激光光声光谱法及系统	1	133	43
2.8~4.0 μm单谱光参量振荡	1	133	55
瞬态简并四波混频中的弛豫效应	2	134	94
聚N-乙烯吡啶的激光敏化反应	2	134	98
NaCl共线光热光偏转光谱频率特性的研究	2	134	101
Al <sub>2</sub> O <sub>3</sub> :Ti <sup>3+</sup> 晶体的激光Raman光谱研究	2	134	120
KTiOPO <sub>4</sub> 晶体的喇曼光谱研究	3	135	162
超辐射的压缩	3	135	166
铅蒸气电子能级近共振Raman散射的合作效应	3	135	170
InSb吸收型光学双稳态	3	135	189
对通过光纤的激光时间相干性的实验研究	4	136	236
LD/PIN光学双稳态半导体激光器的临界慢变效应和临界指数	4	136	245
多元腔模式计算的变量方法	4	136	248
BeO·3Al <sub>2</sub> O <sub>3</sub> :Cr <sup>3+</sup> (BHA)晶体的能级和光谱特性	4	136	250
室温HgCdTe双光子光学双稳性及不稳定性	4	136	253
压缩态光场的迭加	5	137	289
非线性光波中的空间双稳态			

	期	总期	页
特性	5	137	313
双轴晶体KTiOPO <sub>4</sub> 的多频率变换	5	137	315
Fe:LiNbO <sub>3</sub> 晶体的光致散射引起的衍射现象	6	138	345
准直光束在折迭路径上的孔径平滑效应	6	138	350
湍流介质中光像抖动的频率相关	6	138	355
混合型光学双稳态的光脉冲放大	6	138	359
激光诱导烷烃的等离子体化学反应	6	138	363
TSCCC晶体的喇曼光谱研究	6	138	376
缓冲气体对铅蒸气受激喇曼散射的影响	7	139	421
非均匀增宽增益烧孔的描述	7	139	434
双相位共轭镜组成的高斯模	7	139	437
放电管内铷原子光电流特性及强度的径向分布	7	139	440
双光子诱导蛋白质分子荧光的研究	7	139	442
单模激光的反聚束效应	8	140	487
非共振激发Na原子的四光子过程	8	140	492
直流辉光放电HgX(X=Cl, Br, I)B <sup>2</sup> Σ <sup>+</sup> →X <sup>2</sup> Σ <sup>+</sup> 发射光谱的研究	8	140	506
Ni <sup>2+</sup> :BeAl <sub>2</sub> O <sub>4</sub> 激光晶体的红外荧光光谱及能级热移位特性的研究	8	140	510
激光冲击作用下材料的非Fourier热弹性响应	9	141	537
弱高斯光阑近似和相位共轭腔的基本性质	9	141	544
LiNbO <sub>3</sub> :Fe晶体中光感应四波混频光散射	9	141	549
高阶喇曼辐射的弛豫振荡和光束特性	9	141	564
激光-靶相互作用中的无级放电现象	10	142	593
氯化氙激光光束质量对H <sub>2</sub>			

	期	总期	页		期	总期	页
中受喇曼散射转换效率的影响的	10	142	598	二维相干度调制光波的解调	10	142	615
$\text{Na}_4\text{Ge}_3\text{O}_{20}:\text{Cr}^{3+}$ 的吸收和辐射寿命与温度的关系	10	142	601	实现物体多种状态同时判别的新方法	10	142	634
激光大气传输光束漂移的双色相关	10	142	608	用 $\text{Fe}:\text{LiNbO}_3$ 晶体进行实时双曝光干涉的研究	10	142	636
质子交换 $\text{LiNbO}_3$ 平面光波导中的非简并四波混频	10	142	612	基于光逻辑的莫尔偏折学	11	143	674
负频反馈半导体激光器的量子噪声	10	142	631	用多次曝光全息透镜作散斑编码的图像处理	12	144	724
压缩态光场与原子的双光子相互作用	11	143	660	测量物理场参量微小变化的光纤全息干涉法	12	144	739
混合染料中的激光动力学过程	11	143	665	激光全息模拟胸环靶	12	144	741
对激光通过光纤后的空间相干性的研究	11	143	669	 <b>激光应用</b> 			
压缩光场同两个耦合原子的相互作用	11	143	685	弹性联轴节主簧片的激光热处理	1	133	56
等离子体的移动辉纹和 He-Ne 激光的混沌发射	11	143	689	YAG 激光杀虫试验报告	1	133	59
$\text{Na}_2\text{Eu}(\text{WO}_4)_4$ 发光晶体的光谱特性研究	11	143	691	激光疏通活体动物血管的实验研究	1	133	60
用导波光谱学方法研究 $\text{Ag}^+$ 交换玻璃波导的波导层色散研究	11	143	695	Q 开关 Nd:YAG 激光切割晶体后囊膜	1	133	63
电化学体系中苯甲酸的表面增强喇曼散射	11	143	697	渗硼层激光熔化急冷处理	2	134	105
双光子三能级光子回波的可能形式	12	144	760	激光印刷机扫描光学系统的成像质量分析与研究	2	134	123
4-正己基苯甲酸-4'-氰基苯酚酯液晶的喇曼光谱研究	12	144	715	用 $\text{CO}_2$ 激光治疗眼睑赘生物的研究	2	134	125
低温下 $\text{H}_2$ 中的反斯托克斯受激喇曼散射	12	144	719	He-Ne 激光照射奶山羊精液效果初探	2	134	127
用微扰近似理论研究简并四波混频过程中的相位畸变现象	12	144	737	NiCrSiB 合金的激光熔敷	3	135	174
 <b>全息技术与信息处理</b> 				激光多普勒效应测量微小振幅	3	135	191
空间滤波的假彩色像面彩虹全息成像方法	4	136	214	激光-CCD 微位移传感器的研究	6	138	379
成对相关散斑与散斑-莫尔图像信息压缩的光学处理方法——ODPCM 算法研究	5	137	295	激光辐射对绵羊精子细胞内外酶活性的影响	6	138	382
				相因子叠加法测量三维位移的误差、灵敏度及其可测范围分析	7	139	425
				利用单曝光斑纹作参数的光纤电流传感器	7	139	445
				生淀粉糖化酶菌种黑曲霉 S-1 的激光选育	7	139	447
				全息波带片用于太阳能转换在 20# 钢表面激光 C·N 和	9	141	567

	期	总期	页		期	总期	页
C.B 合金化的研究	9	141	568	He-Ne 激光配合针刺治愈			
中子辐照单晶硅与激光退火				周围性面神经麻痹	5	137	319
制备 SOI 结构的研究	11	143	401	He-Ne 激光穴位照射治疗			
45# 钢表面激光碳氮硼失渗				小儿遗尿症	5	137	320
的研究	12	144	742	激光处理黄瓜种子增产效应			
				的研究	5	137	320
<b>激光医学</b>				激光治疗梨状肌综合症近期			
Nd:YAG 激光治疗内痔的				疗效观察	6	133	325
临床疗效及病理观察	10	142	637	激光晶体 Er:YAG 研制成			
功				功	6	138	362
He-Ne 激光对小鼠内脏巨				第一届全国超快现象学术讨			
噬细胞微核出现率的影响	10	142	637	论会在广州召开	6	138	384
				HSC-900 型激光全息散斑			
<b>探 索</b>				照相机等系列阶段成果在			
万有斥力定律	12	144	746	西安通过鉴定	8	140	501
				543.5nm 连续 He-Ne 激光			
<b>简 讯</b>				器	8	140	512
Al <sub>2</sub> O <sub>3</sub> :Ti <sup>3+</sup> 获得宽调谐激光				接地栅闸流管——用于激光			
输出	2	134	97	电源的新型开关元件	8	140	512
输出能量 1.5J 的 LiF:F <sub>2</sub>				共振反射器的一种高精度调			
色心激光振荡	2	134	109	整方法	9	141	571
一种新型的紫外激光探针研				激光诱导生物碱类中草药的			
制成功	2	134	104	荧光观察	9	141	572
二氧化碳激光陶瓷划线机研				磷酸盐玻璃中 Er <sup>3+</sup> 激光的			
制成功	2	134	114	获得	9	141	573
激光热敏电阻微调机通过鉴				中国物理学会设立胡刚复、			
定	2	134	119	饶毓泰、叶企孙、吴有训物			
理奖				“国内光电子产品目录(激光			
川、贵、云、辽四省医用激光				分册)”将重新编印出版	9	141	574
学术交流会在大连召开	2	134	119	第九届全国激光学术报告会			
OST-1 型一步法投影光刻				在哈尔滨召开	9	141	574
机、Stepper 亚微米光刻镜				激光清除气道术后残端缝线			
头、氦-氖双频激光干涉仪				及肉芽肿	12	144	748
在沪通过鉴定	3	135	173	He-Ne 激光穴位照射治疗			
连续调谐的 16 μm 仲氢				顽固性小儿遗尿症	12	144	748
Raman 激光器	3	135	178	He-Ne 激光治疗遗尿症前			
He-Ne 激光治疗疱疹性唇				后免疫功能变化的研究	12	144	748
炎	4	136	200	王之江教授被授予美国光学			
632.8nm 非相干单色光对				学会特别会员的荣誉称号	12	144	750
枯草芽孢杆菌的作用	4	136	253	《中国激光》1988 年(第 15			
歼七飞机激光空中射击模拟				卷, 总第 133~144 期)总			
器	4	136	255	目录	12	144	751
光敏治疗鼻咽癌	5	137	317	作者索引	12	144	764
光敏治疗阴茎癌	5	137	318				



# Annual Cumulative Contents of Volume 15, Chinese Journal of Lasers (1988)

No. Cum. No Page

## REVIEW

A glimpse of development of laser science and technology in China in 1987	2	134	65
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## LASER DEVICES

Electron movement in FELs	1	133	1
Studies of visible chemical lasers. I. Electronic transition IF chemical laser	1	133	5
A miniature free electron laser—electric undulator	1	133	9
Soft X-ray population inversion of NaXI levels by intercombination line resonant photoexcitation	1	133	12
A narrow bandwidth, high spectral purity and high efficiency dye laser oscillator-amplifier system	1	133	47
Output of high pressure CW CO <sub>2</sub> lasers	1	133	49
Electron trajectories, gain and dispersion of FELs with axial guided magnetic fields	2	134	70
Semiclassical analysis of noise effect in two-photon lasers	2	134	75
Investigation of intensity noise of laser due to signal wave feedback in a fiber-optic gyroscope	2	134	80
Study of 1kW transverse flow CW helium-free CO <sub>2</sub> laser	2	134	110
An optically pumped S <sub>2</sub> blue-green laser	2	134	112
A sealed-off CW CO laser with gold electrodes	2	134	115
Noise in an injection locked semiconductor laser amplifier	2	134	117
Investigation of picosecond blue laser emission from chlorophyll molecules	3	135	129
Radiation of dye mixtures pumped by N <sub>2</sub> laser	3	135	134
Investigation of output lines of intracavity CO <sub>2</sub> lasers	3	135	138
Helium-neon laser lifetime computed by best linear undistorted estimation	4	135	179
Laser output of Nile blue A sulfate-xanthene in ethyl alcohol under coaxial flashlamp pumping	3	135	181
Study on a single-flashlamp and double-ruby-rod laser	3	135	183
A practical low-cost gold vapor laser	3	135	184
Experimental investigation of cavity configurations for CVL pumped dye lasers	4	136	193
Beam divergence of copper vapor laser versus efficiency of dye laser pumped with it	4	136	197
Saturable reactor used as charging inductor in copper vapor lasers	4	136	201
Expanding of pulse duration of two channel synchronous XeCl excimer laser	4	136	204
Effects of flow velocity on activation features of the medium in transverse flow CO <sub>2</sub> lasers	4	136	207
Study of role of bromine in CuBr lasers	4	136	211
Operating characteristics of He-KrII laser pumped by pulsed HCD	4	136	239
A highly efficient oxazine-9 dye laser	4	136	241
Properties of higher harmonic operation in storage ring FELs	5	137	257
Theoretical analysis and experimental study of stability of a six mirror ring cavities with large radius of curvature	5	137	260
Optimum value of optical output power for semiconductor lasers	5	137	264

	No.	Cum No.	Page
Characterization of noise in a CW mode-locked argon ion laser	5	137	238
A correlated tuning theory of double-frequency dye lasers	5	137	272
A novel laser Doppler vibrometer	5	137	276
Stimulated emission generated by two-step pumping photodissociation of $K_2$	5	137	276
Long-term stabilization of single longitudinal mode for external cavity semiconductor lasers	5	137	300
Saturation effect in optically pumped far-infrared lasers	3	138	321
Sufficient and necessary conditions for dynamic stable telescopic-resonators	6	138	326
Computation method and program design of Cu-laser model	6	138	363
Fundamental modes of slab lasers	6	138	371
Analysis of He-Ne longitudinal Zeeman laser on basis of Racah model of Ne atom	7	139	335
Property study of He-Ne lasers with flat discharge cross-section	7	139	391
A 10 MW, ns pulse output photodissociation iodine laser oscillator-amplifier system—Design and characteristics	7	139	395
Theoretical and experimental investigation on semiconductor laser amplifier	7	139	400
Effects of gas pressure on output of transverse flow $CO_2$ lasers	7	139	431
Stability analysis of detuned modes with Gaussian transverse profile in lasers and OBS	8	140	449
A pulsed chemical oxygen-iodine laser initiated by electrical discharge	8	140	455
Measurement of electron beam distribution in Raman FELs	8	140	458
A $16\ \mu m$ para- $H_2$ stimulated Raman laser	8	140	462
Laser pulse chirping and its compensation in colliding-pulse mode-locked dye laser	8	140	467
Green and yellow pulses of copper vapor laser oscillator/amplifier and their influence on output of R6G dye laser	8	140	470
High temperature glass sealing technique for He-Ne lasers	8	140	496
Physical optics analysis on virtual concentric resonator modes	9	141	513
Time characteristics of light pulses from copper vapor lasers	9	141	519
Experimental investigation on Compton free electron lasers	9	141	553
Accurate measurement of threshold current for semiconductor lasers	9	141	555
Study on CVL beams	9	141	558
Fundamental modes of phase-conjugate resonators with asymmetric Gaussian reflectivities	10	142	577
Theory of FELs with a helical pump field	10	142	581
Stable 33 W average green light obtained with KTP crystal as intracavity frequency-doubler	10	142	586
Design and analysis of a periodic wiggler magnetic field of helical variance amplitude	10	142	620
A single frequency semiconductor laser with graded-index-rod external cavity	11	143	641
650 nm CW He-Ne Raman laser	11	143	648
Relationship between discharge aperture and transient arc discharge in a white light laser	11	143	678
A mode-locked $Ar^+$ laser with an non-resonant-ring	12	144	705
Threshold current for high temperature CW semiconductor lasers	12	144	707
Formulate method for multi-element optical resonators	12	144	727

## EXPERIMENTAL TECHNIQUES AND ELEMENTS

Hill-climbing adaptive optics wavefront correction system	1	133	17
Damage and accumulation of optical coatings	1	133	22
Image matching theory of two lens astigmatic system for fabricating rainbow and image-plane holograms	1	133	26
A fluorescence pattern photobleaching method for measuring movement of frog eggs surface during egg cleavage	1	133	52
MPI technique for kinetic study of $(NO+O_2)$ reaction	2	134	85



	No.	Cum. No.	Page
Imaging of metal subsurface defects with photothermal beam deflection technique	2	134	89
Theoretical analysis of highest space-frequency formula on holographic grating structure with wide angle and great scene	3	135	141
Investigation on thermal relaxation rates of vibrational levels (00 <sup>0</sup> 1) and (10 <sup>0</sup> 0) of CO <sub>2</sub> molecules by OGE	3	135	145
Image subtraction based on multi-exposure speckle technique	3	135	149
Experimental study of self-generated magnetic field in corona area of laser plasmas	3	135	153
Image improvement of high resolution electron micrographs with spatial rotational variant system by optical means	3	135	156
Study of mode-locked dynamics of picosecond lasers by streak camera	3	135	186
An experimental laser measurement equipment for fluorescent spectral analysis of silkworm cocoons	3	135	187
Measurement of stimulated emission cross section of CO <sub>2</sub> laser from 00 <sup>0</sup> 1-10 <sup>0</sup> 0 transition	4	136	221
Elastic wave generated with pulsed laser light	4	136	227
Laser pulsed photoacoustic effect in liquid and detection by beam deflection method	4	136	231
A real-time and rapid scanning autocorrelator for measuring duration of femtosecond laser pulses	4	136	243
Measurement of picosecond laser pulse widths with second harmonic waves generated from GaAs surfaces	5	137	283
Investigation on laser dynamic precision measurement of fine wire diameters	5	137	286
Observation of HFS of Na <sub>2</sub> $A\Sigma_u^+ \sim b^3\Pi_u$ perturbation levels by polarization spectroscopy	5	137	302
Rotating aperture method of speckle photography for analysing deformation of a dynamic heating object	5	137	305
Formation and microstructure of silicon film deposited by laser light	5	137	306
Temperature measurement by parallel large shearing interferometry	5	137	309
Intracavity acousto-optic modulation for CO <sub>2</sub> laser light	5	137	311
Electric parameter performances of a C-C transfer discharge pumped XeCl laser	6	138	332
A novel electronic equipment for stabilizing output power of low power He-Ne laser and restraining its output noise	6	138	336
Simplified calculation method for deviation characteristics of electrostatic biprism in electron holography	6	138	341
Electron interference and holographic experiment with a TEG	6	138	374
A novel tunable crystal candidate Cr <sup>3+</sup> doped beryllium hexa-aluminate (BHA:Cr <sup>3+</sup> )	7	139	403
Analysis on stability of Möllenstedt biprism	7	139	408
Study of Y <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Cr <sup>3+</sup> laser crystal by means of MS-X $\alpha$ method	7	139	412
Study of anti-laser eye-protection glasses	7	139	417
Contrast-enhanced effect, spectral character and time relaxation properties for injection Fabry-Perot cavity	8	140	473
A method for enhancement of transition radiation intensity	8	140	477
Investigation on physico-chemical process of KTP crystal growth from phosphate fluxes (I)	8	140	482
High sensitivity and broadband laser power ratiometer system	8	140	497
JK-80 large aperture laser energy meter	8	140	500
Incoherent light and white light speckle photography	8	140	502
Discussion on equivalent confocal resonator method	8	140	504
Perfection and laser performances of Nd:YAG crystals grown by temperature gradient technique (TGT)	9	141	522
Fluorescence characteristics of BeO·3Al <sub>2</sub> O <sub>3</sub> :Cr <sup>6+</sup> crystals	9	141	528
Interference filter analyses of an encoded phase-picture	9	141	531
Holographic phase conjugated mirrors	9	141	561



	No.	Cum. No.	Page
Study of two-photon absorption induced fluorescence from protein	7	139	442
Photon antibunching in a single-mode laser light	8	140	487
Four-photon process in atomic sodium using two-photon nonresonant excitation	8	140	492
Emission spectra of HgX (X=Cl, Br, I) $B^2\Sigma^+ \rightarrow X^2\Sigma^+$ transitions in DC glow discharges	8	140	506
Study of infrared fluorescence spectra and thermal shift of energy levels of $Ni^{2+}:\text{BeAl}_2\text{O}_4$ laser crystals	8	140	510
Non-Fourier thermoelastic response to laser impact on a target	9	141	537
Weak-Gaussian aperture approximation and fundamental characteristics of phase conjugate resonators (PCRs)	9	141	544
Light-induced four-wave mixing and scattering rings in $\text{LiNdO}_3:\text{Fe}$ crystals	9	141	549
Relaxation oscillation and beam characteristics of higher order Raman emission	9	141	564
Unipolar-arcing happening in laser-target interaction	10	142	593
Effects of beam quality of XeCl excimer laser on Raman conversion efficiency in $\text{H}_2^*$	10	142	593
Temperature dependence of absorption and radiative lifetime of $\text{Cr}^{3+}$ doped $\text{Na}_4\text{Ge}_3\text{O}_{20}$ crystals	10	142	602
Two-colour correlation of laser beam displacement in turbulent atmosphere	10	142	608
Nondegenerate four-wave mixing in proton exchanged $\text{LiNbO}_3$ planar optical waveguide	10	142	612
Quantum noise negative frequency feedback semiconductor lasers	10	142	631
Two-photon interaction of squeezed state with an atom	11	143	660
Laser kinetic processes in dye mixtures	11	143	665
Experimental research on spatial coherence of laser light passing through a multimode fiber	11	143	669
Squeezed light interaction with a couple of atoms	11	143	685
Moving striation in plasma and chaos emission of He-Ne laser	11	143	689
Study on the spectral properties of $\text{Na}_5\text{Eu}(\text{WO}_4)_4$ luminescence crystals	11	143	691
Study on dispersion of guiding film of a $\text{Ag}^+$ exchanged glass waveguide by means of guided-wave optical spectroscopy	11	143	695
Surface enhanced Raman scattering of benzoic acid in electrochemical system	11	143	697
New possible types of two-photon three-level echoes	12	144	710
Study on liquid crystal 4-n-hexylbenzoic acid-4'-cyanophenyl ester by Raman spectra	12	144	715
Anti-Stokes stimulated Raman scattering in $\text{H}_2$ at low temperatures	12	144	719
Study on phase distortion in degenerate four-wave mixing by means of perturbation approximation theory	12	144	737

## HOLOGRAPHY AND INFORMATION PROCESSING

Rainbow holographic imaging with spatial filtering pseudocolor image plane	4	136	214
Paired correlation speckles and speckle-moires	4	136	216
Optical processing methods of image information compression—A research of ODPCM method	5	137	295
Demodulation of optical waves with modulation degree of two dimension spatial coherence	10	142	615
A new method for judging a multistate object simultaneously	10	142	634
Real-time double-exposure interferometry with $\text{Fe}:\text{LiNaO}_3$ crystals	10	142	636
Moire deflectometry based on optical logical operation	11	143	674
Optical processing of images encoded by speckle by means of multi-exposure holographic lens	12	144	724
Holographic interferometry through mono-mode optical fibers in minute variation measurement of physical field parameters	12	144	739
Analogous chenst silhouette targets generated by laser holography	12	144	741

## LASER APPLICATIONS

Laser heat treatment of master reed in elastic shaft coupling	1	133	56
---	---	-----	----



	No.	Cum. No.	Page
Experimental report on killing injurious insects by YAG laser light	1	133	59
Experimental study of laser angioplasty	1	133	60
Q-switched Nd:YAG laser cutting of posterior capsulotomy	1	133	63
Rapid cooling of laser surface melting of boronized layers	2	134	105
Analysis and study on image quality of scanning optical system for laser printers	2	134	123
Study on the treatment of neoplasm of eyelid by low power CO <sub>2</sub> laser light	2	134	125
Study on effects of milk goats' semen caused by He-Ne laser irradiation	2	134	127
Laser cladding of NiCrSiB alloy	3	135	174
Micrometer-order displacement measurement of vibrating objects with laser Doppler effect	3	135	191
Study on laser-CCD sensors for microdisplacement measurements	6	138	379
Effects of laser irradiation on intra- and extra-cellular enzyme activity from ram sperms	6	138	332
Analysis of error sensitivity and range of 3-D displacement vector measurement	7	139	425
Optical fibre current sensor with single exposure speckle as parameter	7	139	449
Mutagenesis and selection of raw starch glucoamylase-producing strains of aspergillus niger			
S-1 by laser irradiation	7	139	447
Holographic zone plate used for conversion of solar energy	9	141	567
Study on laser C. N and C. B alloying of 20# steel surfaces	9	141	563
Fabrication of SOI structure by means of laser annealed neutron-irradiated single crystal silicon	11	143	701
Carbo-nitro-boroconizing of 45# steel using CO <sub>2</sub> laser light	12	144	742

**LASER MEDICINE**

Clinical and pathological observation of internal hemorrhoid treated by Nd:YAG laser light	10	142	637
He-Ne laser induced micronuclei in peritoneal macrophageocyte of mice	10	142	633

**EXPLORATION**

Law of universal repulsion	12	144	746
----------------------------	----	-----	-----

**LETTERS**

Broadband laser output obtained from Al <sub>2</sub> O <sub>3</sub> :Ti <sup>3+</sup> crystal	2	134	97
Output energy of 1.5 J from LiF:F <sub>2</sub> <sup>-</sup> color center laser	2	134	109
A novel UV laser probe	2	134	104
CO <sub>2</sub> laser scribe developed	2	134	114
Laser trimmer for thermosensitive resistor expertized	2	134	119
Medical laser Symposium of Sichuan, Guizhou, Yunnan and Liaoning provinces held in Dalian	2	134	119
OST-1 type one step projection photolithographic machine, stepper submicrosecond photolithographic lens and double frequency He-Ne laser interferometer expertized in Shanghai	3	135	173
CW tunable 16μm para-H <sub>2</sub> Raman laser	3	135	178
To treat herptic inflammation of lips with He-Ne laser light	4	136	200
Action of 632.8 nm non-coherent monochromatic light on withered grass bacilli	4	136	253
Airborne laser fire simulator for Qian 7 aircrafts	4	136	255
Nasopharyngeal carcinoma treated with PDT	5	137	317
Penis cancer treated by PDT	5	137	318
Curing peripheral facial paralysis by He-Ne laser light	5	137	319

	No.	Cum. No.	Page
Brief clinical summary of acupoint irradiation of infant enuresis with He-Ne laser	5	137	329
A study of yield increasing effect of laser treatment on cucumber seeds	5	137	320
Observation of the recent therapeutic effects of laser on muscularis pignorem	6	138	325
Laser crystal Er:YAG developed	6	138	364
The First National Symposium on Ultrafast Phenomena held in Guangzhou	6	138	382
Intermediate achievements of HSC-900 laser holographic speckle camera etc expertised in Xian	8	140	501
A CW 543.5 nm He-Ne laser	8	140	512
Grounded grid thyatron—a novel switch component for laser power supply	8	140	512
A high precision adjustment method for resonant reflectors	9	141	571
Observation of laser-induced fluorescence in alkaloid Chinese herbal medicines	9	141	572
Obtaining laser light from Er <sup>3+</sup> doped glass	9	141	573
Hu Gangfu, Rao Yutai, Ye Qisun and Wu Youxun awards for physics sponsored by Chinese Physical Society	9	141	574
The 9th National Conference on Laser held in Harbin	9	141	574
Removal of residual stitch and granuloma after tracheobronchial operation by laser light	12	144	743
Treatment of obstinate children enuresis by He-Ne laser irradiation on acupoints	12	144	743
Investigation on immunity variation before and after enuresis treated by He-Ne laser light	12	144	743
Prof. Wang Zhijiang was awarded the honorary title of fellow by the Optical Society of America	12	144	750
Annual cumulative contents volume 15, Chinese Journal of Lasers (1988)	12	144	751
Author index	12	144	764

(上接第 709 页)

表明在 300~400K 区域,  $I_{th}$  值随  $T$  变化规律与文献所示结果相似, 实验结果也在我们所得典型曲线之间。在  $T > 400K$  的区域, 无论 AlGaAs DHLD 还是 InGaAsP DHLD,  $I_{th}$  值随  $T$  变化规律都相同, 都急剧地陡峭上升, 因为此时载流子泄漏效应是决定  $I_{th}$  值的最主要因素。从我们的结果也可以说明, 目前 AlGaAs DHLD 的最高 CW 激光温度略高于 InGaAs PDHLD 的值, 其原因是  $T$  均在 400K 以下, 此温度区间对 InGaAsP DHLD 俄歇复合过程仍是影响  $I_{th}$  值的较重

要因素, 而在 AlGaAs DHLD 中俄歇复合过程认为可以略去<sup>[1]</sup>。

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