

目 录

激光器件

- 垂直液相外延生长 $Pb_{1-x}Sn_xTe/PbTe_{1-y}Se_y$ 晶格匹配异质结激光器
..... 王海龙 沈玉华 曹根娣 张位在 朱筱春 陈鹤明 (321)
- $LiF:F_2$ 色心晶体在 $Nd^{3+}:YAG$ 激光器中的锁模特性研究..... 袁佩霞 周福新 于虹 李胜华 (324)
- 用 BBO 晶体获得 200 至 218nm 的紫外可调谐辐射..... 尤晨华 陆祖康 范琦康 尤桂铭 (327)
- 短脉冲注入锁定染料激光器的输出模式特性..... 张铁军 (356)
- 聚光腔对光泵均匀性的影响..... 丁丽明 杨福民 S. R. Bowman, J. Fogleman, C. O. Alley (359)
- 室温下 LiF 晶体中 F_2^+ 色心激光器的实验研究..... 顾洪恩 戚蓝 万良凤 (362)
- 高功率横流 CO_2 激光器的多折腔的研究(简讯)..... 郑启光 袁斌 李再光 (383)

实验技术与元件

- 若丹明 6G/二甲苯红 B 混合染料体系的研究..... 李莉 王文韵 (330)
- CO_2 脉冲激光辐照的 LiF 晶体中位错的产生和运动..... 周江 乔景文 邓佩珍 (364)
- 激光染料噁嗪 I(Oxazine I) 的研究..... 陈国荣 程铸生 叶霖 (366)
- GTO 斩波、稳幅方波输出准连续 YAG 激光电源..... 宁喜发 姚建经 赵广仪 (368)

激光物理与激光化学

- 用 266.0nm 紫外激光探针研究等离子体冕区电子密度结构
..... 章辉煌 林尊琪 谷忠民 何兴法 戴美兰 庄亦飞 余文炎 (334)
- 不同角度激光打靶条件下等离子体 X 光辐射源的形状..... 冯贤平 徐至展 陈时胜 张正泉 (339)
- $58 \leq Z \leq 71$ 类氦离子 $2p^33l$ 能级的相对论多组态 Dirac-Fock 计算..... 张同发 梁爱华 潘守甫 (342)
- 用电子能量分布研究 He-Ne 激光器中的能量转换..... 周光地 杨明江 (371)
- 湍流大气中激光强度的起伏分布..... 张逸新 (374)
- 简并四波混频中混沌光场的压缩..... 黎永清 王育竹 (377)

全息技术与信息处理

- 光学图像位相调制密度彩色化色彩的实时调试..... 周 焜 陈祯培 钟永碧 (347)

激光应用

- 用两个双稳器件构成的光学全加器..... 李淳飞 查子忠 励强华 殷凤田 张雷 (354)

激光医学

- YAG 激光在小儿耳鼻咽喉科的临床应用..... 徐忠强 刘里仁 邹簇梅 郭玉德 (379)
- He-Ne 激光穴位照射对颅脑损伤外周血循环和指温的影响
..... 顾国柱 陈公白 李盛昌 徐启武 方幼安 (381)

CONTENTS

·LASER DEVICES·

- $Pb_{1-x}Sn_xTe/PbTe_{1-y}Se_y$ lattice-matched heterojunction lasers grown by vertical LPE furnace *Wang Hailong et al.* (321)
- Study on mode locking characteristics of Nd: YAG lasers with LiF: F_2^- color center crystals *Qiu Peixia, Zhou Fuxin, Yu Hong, Li Shenghua* (324)
- Generation of continuously tunable UV radiation from 200 to 218nm using a BBO crystal *You Chenhua, Lu Zukang, Fan Qikang, You Guiming* (327)
- Output mode properties of injection-locked short pulsed dye lasers *Zhang Tiejun* (356)
- Effect of condensers on the homogeneity of optical pumping *Ding Liming, Yang Fumin, S. R. Bowman, J. Fogleman C. O. Alley* (359)
- Experimental study on F_2^- color center in LiF crystal laser at room temperature *Gu Hongen, Qi Lan, Wan Liangfeng* (362)
- Investigation on folded resonator of transverse-flow high power CO_2 lasers *Zheng Qiguang, Yuan Bin, Li Zaiguang* (383)

·EXPERIMENTAL TECHNIQUES AND ELEMENTS·

- Study of R6G/xylene red B dye mixture system *Li Li, Wang Wenyun* (330)
- Emergence and motion of dislocation in LiF single crystals irradiated by pulsed CO_2 laser light *Zhou Jiang, Qiao Jingwen, Deng Peizhen* (364)
- Study on laser dye oxazine I *Chen Guorong, Cheng Zhusheng, Ye Lin* (366)
- A current amplitude-stabilized square-wave output power supply with GTO chopping circuit for pumping quasi-CW YAG lasers *Ning Xifa, Yao Jianquan, Zhao Guangyi* (368)

·LASER PHYSICS AND LASER CHEMISTRY·

- Studies of electron density structures in the corona of laser-produced plasma using 266 nm UV optical probe *Zhang Huihuang et al.* (334)
- Shape of X-ray radiation source of laser-produced plasma dependent on the laser beam incident angle with targets *Feng Xianping, Xu Zhizhan, Chen Shisheng, Zhang Zhengquan* (339)
- Relativistic MCDF calculations of $2p^52l$ energy levels and transition wavelenths from Ne-like ions of $58 \leq Z \leq 71$ *Zhang Tongfa, Liang Aihua, Pan Skoufu* (342)
- Investigation of energy transfer in He-Ne laser by electron energy distribution *Zhou Guangdi, Yang Mingjiang* (371)
- Statistical model for intensity fluctuation of laser light in a turbulent medium *Zhang Yixin* (374)
- Squeezed chaotic-states generated via degenerated four wave mixing *Li Yongqing, Wang Yuzhu* (377)

·HOLOGRAPHY AND INFORMATION PROCESSING·

- Real-time color debugging of optical images pseudocoloring density with phase modulation *Zhou Kun, Chen Zhenpei, Zhong Yongbi* (347)

·LASER APPLICATIONS·

- Optical full adder composed of two optical bistable devices *Li Chunfei et al.* (354)

·LASER MEDICINE·

- Clinical application of laser in otorhinolaryngology *Xu Zhongqiang, Liu Liren, Zou Cumei, Guo Yude* (379)
- Effect of He-Ne laser acupoint irradiation on the microcirculation and the finger temperature *Gu Guozhu et al.* (381)