

# 激光

(月刊)

1979年1月

## 目 录

光子学、光子技术、光子工业 .....	钱学森	(1)
双普克耳斯盒电光开关 .....	林礼煌 陈时胜 欧阳斌 殷光裕 李安民	(4)
巨脉冲红宝石激光器的若干问题 .....	中国科学院安徽光机所三室 301 组	(10)
玻璃中的自聚焦损伤和非线性折射系数 .....	邓 和 张梅珍 郑桂珍	(13)
四路相干光阵的相位控制实验 .....	谢培良 胡雪金 蔡俊豪 王运书	(19)
氧化铍-金属结构氩离子激光器 .....	郑州大学物理系激光教研室 氩激光研制组	(20)
放电泵浦染料蒸气三重态 $T_1$ 的研究 .....	王联治 曾传相 邱明新	(26)
关于多个激活元件激光器的理论考虑 .....	叶碧青	(29)
二维扫描法测量连续型激光器远场分布 .....	刘建邦 沈世达	(36)
脉冲激光测速装置 .....	唐贵琛 李绳式 吴兆庆	(39)
染料激光的能量测量及自动记录 .....	陈威森	(42)
用激光测量沙风洞中风沙的速度 .....	中国科学院安徽光机所五室 502 组	(48)
激光全息球面干涉仪 .....	杨 力	(51)
无变压器固体激光电源 .....	周志康	(56)

## 简 明 通 讯

山东省激光学会成立 .....	(3)
上海市激光学会成立 .....	(12)
JSCK-1 数字式激光测控线径仪 .....	(18)
“B 型激光能量计”暂定为国家激光能量标准 .....	(41)
山东省召开激光测距技术经验交流会 .....	(61)
电子束控制 $\text{CO}_2$ 激光器用有机玻璃外壳电子枪实验 .....	(62)
WJX-1 型激光显微光谱分析仪研制成功 .....	(50)
激光治疗脑炎后遗症 .....	(62)
上海市激光学会举行激光医学年会 .....	(63)
致读者 .....	(63)
《激光》杂志征稿简则 .....	(64)

## Contents

Photonics, Photon Technique and Photon Industry .....	<i>Chien Hsueh-Sen</i> (1)
Electro-Optical Switch with Two Pockels Cells .....	<i>Lin Li-huang, Chen Shi-shen, Ou-yang Pin, Yin Guang-yu Li An-ming</i> (4)
Some Problems about Giant Pulse Ruby Lasers .....	<i>Group 301, 3th Laboratory, Anhwei Institute of Optics and Fine Mechanics, Academia Sinica</i> (10)
Self-Focusing Damage and Nonlinear Refractive Index in Nd-doped Glasses.....	<i>Teng Huo, Chang Mei-tsen, Chen Gue-ts'en</i> (13)
Experiment of Phase Control in Four-Beam Optical Array .....	<i>Shieh Pei-liang, Hu Shueh-jin, Chai Jun-hao, Wang Yun-shu</i> (19)
Argon Ion Laser Using BeO-Metal Structure.....	<i>Ar-Laser Group, Physics Department of Chengchow University</i> (20)
Study of Triplet T 1 in Discharge Excited Dye Vapour .....	<i>Wang Lian-tsi, Tseng Chuan-shang, Chiu Ming-shing</i> (26)
Theoretical Considerations on Multi-Active-Element Lasers .....	<i>Yeh Pi-ching</i> (29)
Measurement of Far-Infrared Profile of CW Laser by Two Dimensional Scanning .....	<i>Liu Chien-pang, Seng Si-ta</i> (36)
Pulsed Laser Velocimeter.....	<i>Tang Gui-Seng, Li Sen-si, Wu Chao-cheng</i> (39)
Energy Measurement and Automatic Recording of Dye Laser .....	<i>Lei Feng</i> (42)
Laser Measurement of Sandstorm Velocity in Sand Wind-Tunnel .....	
<i>Group 502, 5th Laboratory, Anhwei Institute of Optics and Fine Mechanics, Academia Sinica</i> (48)	
Laser Holographic Spherical Surface Interferometer .....	<i>Young Li</i> (51)
Transformerless Power Supply for Solid State Lasers .....	<i>Chou Tsi-Kang</i> (56)

### Brief Communications

Laser Institute of Shantung Province Established .....	( 3 )
JSCK-1 Digital Laser Wire-Diameter Gauge .....	(12)
Laser Institute of Shanghai Established .....	(18)
Model B Laser Calorimeter Decided as Temporary National Laser Energy Standard.....	(41)
Meeting to Exchange Experience on Laser Ranging Technique Held in Shantung Province .....	(61)
Experiment of Electron-Beam-Controlled CO <sub>2</sub> Laser by Electron guns with Plexiglass Shells .....	(62)
Successful Development of Model WJX-1 Laser Microspectroscopic Analyser .....	(50)
Laser Treatment of Encophaletitis Sequela.....	(62)
Laser Medical Annual Meeting of Shanghai Laser Institute Held .....	(63)
To the Readers .....	(63)
Call for Papers.....	(64)