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中外科技资料目录

CURRENT TITLE ON CHINESE AND FOREIGN SCIENCE
AND TECHNOLOGY MATERIALS

光 电 子 学 Optronics

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目 录

一、总 论

- 1—1 书 籍 (1)
- 1—2 综 述 (1)
- 1—3 会议文集 (1)
- 1—4 其 它 (1)

二、基础理论

- 2—1 激光物理学 (1)
- 2—2 红外物理学 (3)
- 2—3 超晶格与量子阱 (4)
- 2—4 干涉、衍射、偏振、折射、散射 (5)
- 2—5 激光光谱学 (6)
- 2—6 红外光谱学 (6)
- 2—7 等离子体物理学 (7)
- 2—8 激光化学 (8)
- 2—9 激光放大 (8)
- 2—10 量子光学 (8)
- 2—11 非线性光学 (8)
- 2—12 其它理论 (10)

三、实验技术

- 3—1 谐振腔及泵浦源 (11)
- 3—2 调Q、锁模 (11)
- 3—3 倍频、稳频
- 3—4 传输 (12)
- 3—5 光电子技术与集成光学 (12)
- 3—6 全息照相、图像信息处理 (14)
- 3—7 光计量 (16)
- 3—8 激光技术 (17)
- 3—9 其它实验技术 (18)

四、装 置

- 4—1 固体激光器 (19)
- 4—2 气体激光器 (21)
- 4—3 半导体激光器 (22)
- 4—4 染料激光器 (27)
- 4—5 自由电子激光器 (27)
- 4—6 光纤激光器 (31)
- 4—7 短波长激光器 (31)
- 4—8 化学激光器 (31)
- 4—9 其它装置 (32)

五、激光元器件

- 5—1 耦合及开关元件 (32)
- 5—2 调制器、偏振器、变频器 (33)

- 5—3 可见、紫外探测器 (34)
- 5—4 遥感器
- 5—5 传感器 (34)
- 5—6 光学薄膜 (34)
- 5—7 其它器件 (35)

六、红外仪器和装置

- 6—1 红外辐射计 (39)
- 6—2 红外测温、测湿仪器 (40)
- 6—3 红外光谱分析仪器 (40)
- 6—4 红外热成像仪器 (40)
- 6—5 红外遥感仪器 (40)
- 6—6 红外传感器 (40)
- 6—7 红外辐射源 (40)
- 6—8 其它 (40)

七、红外探测器

- 7—1 单元探测器 (40)
- 7—2 多元和焦平面探测器 (41)

八、材 料

- 8—1 晶体材料 (41)
- 8—2 玻璃材料 (41)
- 8—3 半导体材料 (42)
- 8—4 红外材料 (42)
- 8—5 非线性材料 (42)
- 8—6 光存贮材料 (42)
- 8—7 光纤元件及材料 (42)
- 8—8 其它材料 (43)

九、应 用

- 9—1 军事应用
- 9—2 光通信 (43)
- 9—3 雷达、测距、制导 (45)
- 9—4 激光等离子体与激光聚变 (45)
- 9—5 科学技术应用 (45)
- 9—6 生物学与激光医学 (46)
- 9—7 工业应用 (47)
- 9—8 红外加热 (48)
- 9—9 农业应用
- 9—10 其它应用 (48)

英文目录 封三

征订广告 封四

使用说明 封四

编辑组成员 封四

Contents

I. General

- 1-1 Books (1)
- 1-2 Reviews (1)
- 1-3 Meeting proceedings (1)
- 1-4 Miscellaneous (1)

II. Basic theory

- 2-1 Laser physics (1)
- 2-2 Infrared physics (3)
- 2-3 Superlattices and quantum wells (4)
- 2-4 Light interference, diffraction, polarisation, refraction, scattering (5)
- 2-5 Laser spectroscopy (6)
- 2-6 Infrared spectroscopy (6)
- 2-7 Plasma physics (7)
- 2-8 Laser chemistry (8)
- 2-9 Laser amplification (8)
- 2-10 Quantum optics (8)
- 2-11 Nonlinear optics (8)
- 2-12 Other theories (10)

III. Experimental techniques

- 3-1 Laser resonators and Pumping sources (11)
- 3-2 Q-switching, mode-locking (11)
- 3-3 Frequency-doubling, Frequency stabilization (12)
- 3-4 Optical transmission (12)
- 3-5 Optoelectronic techniques and integrated optics (12)
- 3-6 Holography, image information processing (14)
- 3-7 Optical metrology (16)
- 3-8 Laser techniques (17)
- 3-9 Other experimental techniques (18)

IV. Devices and apparatuses

- 4-1 Solid state lasers (19)
- 4-2 Gas lasers (21)
- 4-3 Semiconductor lasers (22)
- 4-4 Dye lasers (27)
- 4-5 Free electron lasers (27)
- 4-6 Fiber optic lasers (31)
- 4-7 Short wavelength lasers (31)
- 4-8 Chemical lasers (31)
- 4-9 Other devices (32)

V. Components

- 5-1 Optical coupling and switching elements (32)
- 5-2 Modulators, polarizers, frequency

- converters (33)
- 5-3 Visible and UV detectors (34)
- 5-4 Remote sensing devices
- 5-5 Sensors (34)
- 5-6 Optical thin films (34)
- 5-7 Others (35)

VI. Infrared instruments and devices

- 6-1 Infrared radiometers (39)
- 6-2 Infrared thermometers and hygrometers (40)
- 6-3 Infrared spectrometers (40)
- 6-4 Infrared heat imaging (40)
- 6-5 Infrared Remote sensing (40)
- 6-6 Infrared Sensors (40)
- 6-7 Infrared radiation sources
- 6-8 Others (40)

VII. Infrared detectors

- 7-1 Single element detectors (40)
- 7-2 Multi-element and focal plane detectors (41)

VIII. Materials

- 8-1 Crystal materials (41)
- 8-2 Glass materials (41)
- 8-3 Semiconductor materials (42)
- 8-4 Infrared materials (42)
- 8-5 Nonlinear materials (42)
- 8-6 Optical storage materials (42)
- 8-7 Optical fiber elements and materials (42)
- 8-8 Other materials (43)

IX. Applications

- 9-1 Military applications
- 9-2 Optical communication (43)
- 9-3 Lidar, rangefinding, guidance (45)
- 9-4 Laser-produced plasma and laser fusion (45)
- 9-5 Applications in science and technology (45)
- 9-6 Biological and medical applications (46)
- 9-7 Industrial applications (47)
- 9-8 Infrared heating (48)
- 9-9 Applications in agriculture
- 9-10 Other applications (48)

English Contents (cover 3)

Notice for domestic subscription (cover 4)

Manual (cover 4)

Members of the editorial department (cover 4)

一、总 论

1-1 书 籍

强光光学及其应用=Nonlinear optics and applications/刘颂豪, 赫光生//广东科技出版社-1995,,1~379[中]

第一本激光二极管皮秒动力学书出版=Первая книга по пикосекундной динамике лазерных диодов/Семенов А. С. // Квант. электр. -1995,22, No. 11-1168~1168[俄]

1-2 综 述

赴德意法三国激光技术考察报告=/徐启阳//激光与光电子学进展-1995, No. 6-32~35[中]

激光-光电子技术的新进展-94CLEO和IQEC会议简介=/江剑平//激光与光电子学进展-1995, No. 7-11~18[中]

光学系统的发展趋势=Entwicklungstrends optischer Systeme/Richter A., Rieche G. // Laser Magazin -1995, No. 1-8~12[德]

光机电子学:从今天到明天=オプトメカトロニクス:今日から明日へ/吉泽征//O plus E-1995, No. 190-69~73[日]

利用衍射的光学系统其功能设计及应用=回折光学を用いた光学系の機能設計と応用/小野雄三//光学-1995,24, No. 12-713~717[日]

自适应光学系统原理及其应用=补偿光学系の原理とその応用/一ノ瀬祐治//光学-1995,24, No. 12-718~724[日]

光盘在多媒体时代的作用和展望=マルチメディア時代の光ディスクの役割と展望/横野磁//日本应用磁气学会志-1995,18, No. 6-973~980[日]

1-3 会议文集

激光、电光/量子电子学和激光科学会议=Conference on Laser and Electro-Optics/Quantum Electronics and Laser Science Conference (CLEO/QELS)'95, 21-26. Mai Baltimore (USA) // Laser und Optoelektronik -1995,27, No. 4-21~22[德]

工业用固体激光器学术会议=AGA-FLI Symposium über Festkörperlaser in der industriellen Anwendung 11.-12. Mai Berlin // Laser und Optoelektronik -1995,27, No. 4-22~22[德]

加拿大国家研究委员会在半导体激光二极管方面的研究情况=Semiconductor Laser Diode Research at the National Research Council (NRC) of Canada/Danies M. // Laser und Optoelektronik -1995,27, No. 5-55~56[英]

"探索凝聚相动力学超高速光谱学新技术"报告="凝縮相のダイナミクスを探る超高速分光の新しいテクニック"报告/丑

田公规//分光研究-1995,44, No. 3-153~154[日]

1-4 其 它

以色列增加材料加工市场上用的高性能CO₂激光器=Israel steigt mit High-Performance-CO₂-Lasern in den Materialbearbeitungsmarkt ein//Laser Magazin -1995, No. 4-14~15[德]

蔡司生产大型环形激光陀螺仪的头和光学系统=Zeiss fertigt Körper und Optik für größten Ring-Laser-Kreisler der Welt // Laser Magazin -1995, No. 5-20~20[德]

加工激光器用的气体=Gase für Bearbeitungslaser // Laser Magazin -1995, No. 6-5~7[德]

1995年半导体激光器市场增长超过30%,制造商希望芯片不再短缺=Halbleitermarkt wächst 1995 um über 30 Prozent Hersteller erwarten anhaltende Verknappung bei Chips // Laser Magazin -1995, No. 6-16~16[德]

用光学低相干反射术作人头发特性表征=Characterization of human scalp hairs by optical low-coherence reflectometry/Wang X. J., Milner T. E., Dhond R. T. et al. // Opt. Lett. -1995, 20, No. 6-524~526[英]

新的光存储技术=スーベル光メモリー技術/后藤显也//O plus E-1995, No. 109-92~99[日]

大学中的光机电子学=大学におけるオプトメカトロニクス/大坪顺次//O plus E-1995, No. 190-74~79[日]

跃进中的韩国电子企业=跃进する韓国電子企業/青柳全//オプトロニクス-1995,14, No. 8-155~160[日]

法国的激光加工=フランスにおけるレーザー加工//オプトロニクス-1995,14, No. 8-163~165[日]

广岛大学工学部=广岛大学工学部//オプトロニクス-1995,14, No. 8-166~167[日]

堀场制作所=(株)堀場製作所//オプトロニクス-1995,14, No. 8-168~169[日]

对21世纪"激光产业"的期待="レーザー産業"21世紀への期待/松井望//レーザー研究-1995,23, No. 8-623~624[日]

21世纪是光的时代=21世紀は光の時代/伊藤升司//光技術コンタクト-1995,33, No. 7-351~352[日]

日本应用磁气学会和磁光盘=日本应用磁気学会と光磁気ディスク/今村修武//日本应用磁気学会志-1995,19, No. 3-675~676[日]

二、基础理论

2-1 激光物理学

激光散斑的纵向尺寸=The longitudinal dimension of laser speckle/叶柳//光电子·激光-1995,6, No. 4-228~231[中]

Stark效应对双光子Jaynes-Cummings模型中原子辐射谱的影响=Influence of Stark shift on the emission spectrum of the atom in the two photons Jaynes-Cummings model/宋同强,冯健,王文正 et al. //光子学报-1995,24, No. 1-10~12[中]

激光频率对DNA分子混沌影响的研究=Study of the influence of laser frequency on DNA chaos/邵耀博,封国林//红外与毫米波学报-1995,14, No. 6-456~460[中]

96221347

由垂直腔表面发射激光器偏振起伏所引起的过剩强度噪声 = Excess intensity noise originated from polarization fluctuation in vertical-cavity surface-emitting lasers/Mukaihara T., Ohnoki N., Hayashi Y. *et al.* // *IEEE Photon Technol Lett* - 1995, 7, No. 10 - 1113 - 1115 [英]

96221348

横向电流注入激光器的内部工作机理的研究 = An investigation of lateral current injection laser internal operation mechanisms/Suda D. A., Lu H., Makino Tet *al.* // *IEEE Photon Technol Lett* - 1995, 7, No. 10 - 1122 ~ 1124 [英]

96221349

InGaAsP-InP 激光器在湿热环境中的退化; 温度-湿度-偏流加速因子的测定 = Degradation of InGaAsP-InP lasers in hot-humid ambients; determination of temperature-humidity - bias acceleration factors/Osenbach J. W., Comizzoli R. B., Evanosky T. L. *et al.* // *IEEE Photon Technol Lett* - 1995, 7, No. 11 - 1252 ~ 1254 [英]

96221350

用于测量自发发射因子的半导体激光器的率方程=On the rate equations of semiconductor lasers for measuring spontaneous emission factor/Huang Y. -Z. // *IEEE Photon Technol Lett* -1995, 7, No. 9-977~979[英]

96221351

由甲醇及其各向同性物质产生的远红外激光线;评论=Far infrared laser lines produced by methanol and its isotropic species : a review/Zerbetto S. C., Vasconcellos E. C. C. // *International Journal of Infrared and Millimeter Waves* - 1994, 15, No. 5 - 889~934[英]

96221352

建立 p-GE 远红外激光器的动力学模型 = Establishment of a dynamic model for the p-GE far IR laser/Colem P. D., Wierer J. J.
// *International Journal of Infrared and Millimeter Waves* - 1995, 16, No. 1-3~32[英]

96221353

激光噪声的经典理论=Classical theory of laser noise/Arnaud J.
// *Opt. & Q. E.* —1995, 27, No. 2—63~90〔英〕

96221354

在各向异性反馈的情况下具有近各向同性共振腔的双频率激光器的偏振动力学 = Polarization dynamics of a dual-frequency laser with a nearly isotropic resonator in the presence of anisotropic feedback/Cho K., Lee S., Lee Y. *et al.* // *Opt. & Q. E.* - 1995, **27**, No. 5 - 495~502[英]

96221355

测定激光媒质有效受激发射横截面的简单方法=A simple method to determine the effective stimulated emission cross-section of laser media/Maldonado E. P., Vieira Junior N. D. // *Opt. Commun.* — 1995, **117**, No. 1~2—102~106 [英]

96221356

增益与径向有关的高斯模激光器中的洛伦兹样混沌 = Lorenz like chaos in a gaussian mode laser with a radially dependent gain / Smith C. P., Dykstra R. // *Opt. Commun.* - 1995, **117**, No. 1 ~ 2 - 107 ~ 110 [英]

96221357

X 射线激光靶的双脉冲辐照=Double pulse irradiation of X-ray laser targets/Plowes J. A., Pert G. J., Holden P. B. // *Opt. Commun.* - 1995, **117**, No. 1~2-189~197 [英]

96221358

二元失调激光阵列中锁相=Phase locking in a two-element laser array with detuning/Xu J., Lee K. K., Chen Y. C. // *Opt. Commun.* - 1995, 117, No. 1~2-198~206[英]

96221359

用激光短脉冲对原子进行限制和操作 = Confinement and manipulation of atoms using short laser pulses/Fregardc T. G. M., Walz J., Hansch T. W. // *Opt. Commun.* - 1995, **117**, No. 3~4 - 262~267 [英]

96221360

相关全息干涉量度学用于研究激光感生消除=Correlation holo-

用有限差复合轴束传输法的非线性导模的数值解法 = Numerical solution method of nonlinear guided modes with a finite difference complex axis beam propagation method/Wijnands F., Hoekstra H. J. W. M., Krijnen G. J. M. *et al.* // *IEEE J. Q. E.* - 1995, **31**, No. 5 - 782~790 [英]

graphic interferometry applied for studies of laser-induced erosion/Driden G. V., Semenova I. V. // *Opt. Commun.* - 1995, **118**, No. 1~2-21~24[英]

96221361
应变1.3 μm InGaAsP/InP 激光在皮秒电流调制下的偏振模动力学=Polarization-mode dynamics in strained 1.3- μm InGaAsP/InP lasers under picosecond current modulation/Klehr A., Müller R., Enders P. et al. // *Opt. Commun.* - 1995, **118**, No. 3~4-323~328[英]

96221362
飞秒激光脉冲的干涉整形=Interferometric shaping of femtosecond laser pulses/Giles A. J., Posthumus J. H., Thompson M. R. et al. // *Opt. Commun.* - 1995, **118**, No. 5~6-537~541[英]

96221363
激光器偏振的量子力学漫射=Quantum mechanical diffusion of the polarization of a laser/van Eijkelenborg M. A., Schrama C. A., Woerdman J. P. // *Opt. Commun.* - 1995, **119**, No. 1~2-97~103[英]

96221364
在扩展类氦-镁等离子体中用短激光脉冲抽运的软X射线激光的估算=Calculation of soft X-ray laser in an expanding He-like Mg plasma pumped by a short laser pulse/Ma G., Tan W. // *Opt. Commun.* - 1995, **119**, No. 1~2-125~131[英]

96221365
具有大的菲涅耳数的不稳定离轴共振器的模性能=Mode properties of unstable off-axis resonators with large fresnel numbers/Ehrlichmann D. // *Opt. Commun.* - 1995, **119**, No. 1~2-236~245[英]

96221366
超过率方程近似的半导体激光动力学=Semiconductor laser dynamics beyond the rate-equation approximation/Yao J., Agrawal G. P., Gallion P. et al. // *Opt. Commun.* - 1995, **119**, No. 1~2-246~255[英]

96221367
在非线性质媒质中自作用激光束的横向光双稳定性=Transverse optical bistability of self-action laser beams in a nonlinear medium/Borshch A. A., Gayvoronsky V. Ya., Volkov V. I. // *Optical Engineering* - 1995, **34**, No. 4-1002~1007[英]

96221368
激光散射场的偏振结构=Polarization structure of laser scattering field/Ushenko A. G. // *Optical Engineering* - 1995, **34**, No. 4-1088~1093[英]

96221369
调制干涉效应:光弹调制器和激光器的使用=Modulated interference effects, use of photoelastic modulators with lasers/Oakberg T. C. // *Optical Engineering* - 1995, **34**, No. 6-1545~1550[英]

96221370
InGaAsP/InP 激光二极管的二级和三级相互调制的维他里分析:理论和实验=Volterra analysis of second-and third-order intermodulation of InGaAsP/InP laser diodes: theory and experiment/Hunziker S. // *Optical Engineering* - 1995, **34**, No. 7-2037~2043[英]

96221371
二极管激光抽运 Nd:KGW 的激光特性=Lasing properties of diode-laser-pumped Nd:KGW/Graf T., Balmer E. // *Optical Engineering* - 1995, **34**, No. 8-2349~2352[英]

96221372
Ca-Sr 混合物中光感生碰撞能量转移过程=Ca-Sr 混合系における光誘起衝突エネルギー移行过程/田中义人,立川真树,蟹江一郎 et al. // *レーザー 科学研究* - 1995, No. 17-101~103[日]

96221373
能量可变偏振单色 γ 射线——逆康普顿散射的应用=エネルギー可变偏光単色の発生——逆コンプトン散乱的应用/大垣英明,野口勉// *日本物理学会志* - 1995, **50**, No. 5-381~386[日]

2-2 红外物理学

96221374
用高分辨电子能量损失谱和紫外光电子谱研究多孔硅的电子结构=Electronic structure of porous silicon studied by HREELS and UPS/郝平海,侯晓远,丁训民 et al. // *半导体学报* - 1995, **16**, No. 1-13~18[中]

96221375
MBE 生长的 p -Hg_{1-x}Cd_xTe 外延薄膜变磁场下的 Hall 系数及电导率=Magnetic-field dependences of Hall coefficient and conductivity of p -type Hg_{1-x}Cd_xTe grown by MBE/杜庆红,何力,袁诗鑫 et al. // *半导体学报* - 1995, **16**, No. 3-182~187[中]

96221376
低补偿度 n -Hg_{1-x}Cd_xTe 的弱局域效应=Weak localization of low compensated n -Hg_{1-x}Cd_xTe/韦亚一,郑国珍,沈金熙 et al. // *半导体学报* - 1995, **16**, No. 4-263~267[中]

96221377
多孔硅光致发光谱中双峰结构随激发光波长的变化与发光机制=Variation of double-peak structure of photoluminescence spectra with excitation wavelength and luminescence mechanism for porous silicon/姚光庆,张丽珠 et al. // *半导体学报* - 1995, **16**, No. 4-268~271[中]

96221378
注 C⁺ 硅多孔结构的蓝光发射=Blue emission from porous structures of C⁺-implanted silicon/廖良生,鲍希茂,闵乃本// *半导体学报* - 1995, **16**, No. 4-314~316[中]

96221379
光子计数探测的非线性失真及其改进的研究和探讨(一)=Nonlinear distortion in photon detection and its improvement/谭征// *红外技术* - 1995, **17**, No. 3-29~31[中]

96221380
光子计数探测的非线性失真及其改进的研究和探讨(二)=Nonlinear distortion in photon detection and its improvement/谭征// *红外技术* - 1995, **17**, No. 4-23~26[中]

96221381
实验数据的最佳逼近=Optimum approaching technique for experimental data/许生龙,何丹,马智玲// *红外技术* - 1995, **17**, No. 4-34~38[中]

96221382
一种新的前视红外成像相关跟踪算法=A novel forward-looking infrared imagery correlation tracking algorithm/王涛,刘上乾,伍长奎// *红外与毫米波学报* - 1995, **14**, No. 5-321~326[中]

96221383
前视红外舰船图象的模糊分割算法研究=Study of fuzzy segmenting algorithm of ship imaging target by forward-looking infrared technique/裴继红,谢维信,杨宜禾 et al. // *红外与毫米波学报* - 1995, **14**, No. 5-327~335[中]

96221384
微机控制的光热辐射技术测量金属的热扩散系数=Measurement of the thermal diffusivity of metals using photothermal radiometry controlled by micro-computer/王钦华,李佩赞,王磊// *红外与毫米波学报* - 1995, **14**, No. 5-391~394[中]

96221385
单色微分辐射出射度=Spectral differential radiant exitance/凌裕农// *红外与毫米波学报* - 1995, **14**, No. 5-395~400[中]

96221386
随机风场对自然地表红外辐射统计分布的影响=Influence of random wind field on the infrared radiance statistics distribution of natural terrain/魏合理,宋正方// *红外与毫米波学报* - 1995, **14**, No. 6-424~428[中]

96221387
OCT 系统二维图象形成分析=Analysis of two-dimensional image formation in optical low-coherence tomography system/曾绍群,骆清铭,刘贤德 et al. // *红外与毫米波学报* - 1995, **14**, No. 6-429~434[中]

96221388

硅单晶中氮-氧复合体的红外吸收研究 = Infrared absorption study of nitrogen-oxygen complex in silicon/杨德仁, 阙端麟 // 红外与毫米波学报 - 1995, 14, No. 6 - 441~446[中]

96221389

碲镉汞在磁量子限的弛豫时间 = Relaxation time of $Hg_{1-x}Cd_x$ Te in magneto-quantum-limit/刘普霖, 陆卫, 陆晓峰 *et al.* // 红外与毫米波学报 - 1995, 14, No. 6 - 471~474[中]

96221390

基于远红外频率价带子能带间跃迁的 p 型 InGaAs 应变层的吸收与光子数转换 = Absorption and population inversion in p -type InGaAs strained layers based on intervalence subband transition at FIR frequencies/Zhang X. K., Afzali-Kushaa A., Chen W. L. // *Infrared Physics & Technology* - 1995, 36, No. 1 - 545~550[英]

96221391

热背景模型的研究 = Thermal background model studies/Zaang L. Q., Zhang H. X., Bai C. C. // *Infrared Physics & Technology* - 1995, 36, No. 2 - 577~584[英]

96221392

层状硅光栅薄片结构的红外透射与反射研究 = IR transmission and reflection study of lamellar silicon grating-wafer structures/Hava S., Auslender M., Lacquet B. M. // *Infrared Physics & Technology* - 1995, 36, No. 2 - 639~648[英]

96221393

从肖特基结中的光电流的光谱依赖关系测定其吸收系数 = Determination of the absorption coefficient from the spectral dependence of the photocurrent in Schottky type junctions/Kochev K. D., Kuser D. B., Mitev M. D. // *Infrared Physics & Technology* - 1995, 36, No. 3 - 649~654[英]

96221394

晶体中杂质球形激子红外辐射的高灵敏度室温探测物理基础 = Physical grounds of high-sensitive room temperature detection of infrared radiation involving spherical excitons at impurities in crystals/Vlasov G. K., Vylegihanin D. N., Dolgikh N. A. // *International Journal of Infrared and Millimeter Waves* - 1995, 16, No. 1 - 33~74[英]

96221395

具有吸收的光折射晶体四波混频中的正反馈效应 = Positive feedback effect in four-wave mixing in photorefractive crystals with absorption/Rustamov F. A. // *Opt. & Q. E.* - 1995, 27, No. 4 - 239~248[英]

96221396

在 $LiNbO_3$ 中产生可调谐千瓦皮秒远红外脉冲 = Tunable, kilowatt, picosecond far-infrared pulse generation in $LiNbO_3$ /Qiu T., Tillert T., Maier M. // *Opt. Commun.* - 1995, 119, No. 1~2 - 149~153[英]

96221397

在 82MHz 用参量混频产生高度相干可调谐中红外飞秒脉冲 = Generation of highly coherent tunable mid-infrared femtosecond pulses by parametric frequency-mixing at 82MHz/Gale G. M., Cavallari M., Driseoll T. J. *et al.* // *Opt. Commun.* - 1995, 119, No. 1~2 - 159~162[英]

96221398

在 Nd:YAG 放大器中用可饱和增益简并四波混频相位共轭的能量效率 = Energy efficiency of phase conjugation by saturable-gain degenerate four-wave mixing in Nd:YAG amplifiers/Brignon A., Huignard J. - P. // *Opt. Commun.* - 1995, 119, No. 1~2 - 171~177[英]

96221399

高重复率飞秒中红外脉冲的产生 = High-repetition-rate femtosecond mid-infrared pulse generation/de Barros M. R. X., Miranda R. S., Jedju T. M. *et al.* // *Opt. Lett.* - 1995, 20, No. 5 - 480~482[英]

96221400

在可见和红外范围用于调制传递函数测量的无规透明目标 = Random transparency targets for modulation transfer function measurement in the visible and infrared regions/Daniels A., Boreman AG. D., Ducharme A. D. *et al.* // *Optical Engineering* -

1995, 34, No. 3 - 860~868[英]

96221401

在 55 和 75 度温度掺 Ce:FeLiNbO₃ 晶体中反常的光生伏特电流 = Anomalies of photovoltaic current in a Ce:Fe doped LiNbO₃ crystal at 55 and 75 °C temperatures/McMillen D. K., Hudson T. D., Yu F. T. S. *et al.* // *Optical Engineering* - 1995, 34, No. 8 - 2240~2242[英]

2-3 超晶格与量子阱

96221402

InGaAs/GaAs 应变量子阱中的激子发光动力学 = Effect of alloy disordering on exciton dynamics in InGaAs/GaAs quantum wells/徐仲英, 罗昌平, 金世荣 *et al.* // *半导体学报* - 1995, 16, No. 2 - 101~106[中]

96221403

多量子阱光波导传输特性分析 = Propagation properties of multiple quantum well optical waveguides/马春生 // *半导体学报* - 1995, 16, No. 3 - 161~166[中]

96221404

高精度双晶衍射 (HRDCD) 方法检测 InGaAs/GaAs 超薄应变层量子阱结构参数 = InGaAs/GaAs ultrathin strained quantum well characterization by high resolution X-Ray diffraction/王小军, 庄岩, 王玉田 *et al.* // *半导体学报* - 1995, 16, No. 3 - 170~176[中]

96221405

GaAs/AlAs 波纹超晶格中的激子局域化研究 = Exciton localization in corrugated GaAs/AlAs superlattices grown on (311)GaAs substrates/袁之良, 徐仲英, 许继宗 *et al.* // *半导体学报* - 1995, 16, No. 4 - 309~313[中]

96221406

GaAs/AlGaAs 窄量子阱中激子二维特性的退化 = Degeneration of quasi-two-dimensional properties of excitons in narrow GaAs/AlGaAs quantum wells/袁之良, 许继宗, 郑宝真 *et al.* // *红外与毫米波学报* - 1995, 14, No. 4 - 257~262[中]

96221407

金属有机物化学气相沉积 GaAs/Si 外延层中 1.13eV 发光带特性研究 = Characteristic study of 1.13eV photoluminescence band in GaAs epilayers grown on Si by MOCVD/赵家龙, 高英, 刘学彦 *et al.* // *红外与毫米波学报* - 1995, 14, No. 4 - 271~276[中]

96221408

$In_{0.2}Ga_{0.8}As$ /GaAs 应变多量子阱结构的光调制反射和热调制反射谱的研究 = Photoreflectance and thermoreflectance studies of strained-layer $In_{0.2}Ga_{0.8}As$ /GaAs multiple quantum wells structure/陈辰嘉, 高蔚, 米立志 *et al.* // *红外与毫米波学报* - 1995, 14, No. 4 - 305~309[中]

96221409

量子级联激光器 = Quantum cascade laser/李明 // *物理* - 1995, 24, No. 4 - 197~200[中]

96221410

采用直接外延方法生长的量子线结构及其光学性质 = GaAs/AlAs quantum well-wire structure directly grown by MBE and its optical properties/汪兆平, 邢盖荣 // *物理* - 1995, 24, No. 8 - 496~502[中]

96221411

长波长应变层量子阱结构的俄歇复合 = Auger recombination in long-wavelength strained-layer quantum-well structures/Wang J., von Allmen P., Leburton J. - P. *et al.* // *IEEE J. Q. E.* - 1995, 31, No. 5 - 864~875[英]

96221412

晶格匹配的 InGaAlAs-InAlAs 量子阱在 1.3 μm 处的电吸收 = Electroabsorption in lattice-matched InGaAlAs-InAlAs quantum wells at 1.3 μm /Cheng A. - N., Wieder H. H., Chang W. S. C. // *IEEE Photon Technol Lett* - 1995, 7, No. 10 - 1159~1161[英]

96221413

采用组分可变的 InGaAs 量子阱发射波长在 1.4~2.0 μm 的宽波段发光二极管 = Broad-band light-emitting diode for 1.4~2.

0 μ m using variable-composition InGaAs quantum wells/Fritz I. J., Klem J. F., Hofich M. J. et al. // *IEEE Photon Technol Lett* — 1995, 7, No. 11 — 1270~1272[英]

96221414

GaInAs-AlGaInAs 量子阱的超高微分增益:实验和模型=Ultra-high differential gain in GaInAs-AlGaInAs quantum wells:experiment and modeling/Xu M. L., Tan G. L., Xu J. M. et al. // *IEEE Photon Technol Lett* — 1995, 7, No. 9 — 947~949[英]

96221415

热声子对量子阱激光器中的载流子加热的影响=Effects of hot phonons on carrier heating in quantum-well lasers/Tsai C. -Y., Lo Y. -H., Spencer R. M. et al. // *IEEE Photon Technol Lett* — 1995, 7, No. 9 — 950~952[英]

96221416

同相和反相增益耦合对多量子阱分布反馈激光器高速性质的影响=Effect of in-phase and antiphase gain coupling on high-speed properties of MQW DFB lasers/Hong J., Makino T., Lu H. et al. // *IEEE Photon Technol Lett* — 1995, 7, No. 9 — 956~958[英]

96221417

111InGaAs-GaAs 应变层压电量子阱的电结构和场屏蔽效应=Electronic structure and field screening effects in 111 InGaAs-GaAs strained layer piezoelectric quantum-well/Rodriguez-Girones P. J., Rees G. J. // *IEPTL* — 1995, 7, No. 1 — 71~74 [英]

96221418

顶层厚度对应变 InGaAs/GaAs 单量子阱的光致发光性质的影响=Influence of the cap layer thickness on photoluminescence properties in strained InGaAs/GaAs single quantum wells/Shen W. Z., Tang W. G., Shen S. C. // *International Journal of Infrared and Millimeter Waves* — 1994, 15, No. 10 — 1643~1650[英]

96221419

在 GaAs/AlGaAs 多量子阱中激子寿命对温度和密度的依赖关系=Temperature and density dependence of exciton lifetimes in GaAs/AlGaAs multiple quantum wells/Chu J. H., Seo J. -C., Shin E. -J. et al. // *Opt. & Q. E.* — 1995, 27, No. 5 — 387~394[英]

96221420

具有高特征温度(T_0)的670nm AlGaInP/GaInP 应变多量子阱激光二极管=670nm AlGaInP/GaInP strained multi-quantum well laser diode with high characteristic temperature (T_0)/Kim J. -S., Yang M., Choi W. -J. et al. // *Opt. & Q. E.* — 1995, 27, No. 5 — 435~440[英]

96221421

在多次阶跃式量子阱中光学二次谐波产生与量子阱数目的关系=Quantum-well-number dependence of optical second-harmonic generation in multiple-step quantum wells/Liu A. // *Opt. Commun.* — 1995, 119, No. 1~2 — 191~196[英]

96221422

在半导体量子阱中的光学放大和光学饱和=Optical amplification and its saturation in semiconductor quantum wells/Bongiovanni G., Butty J., Staehli J. -L. // *Optical Engineering* — 1995, 34, No. 7 — 1941~1950[英]

96221423

1.55 μ m 可分离界限异质结构多量子阱激光二极管的化学束外延=Chemical beam epitaxy of 1.55- μ m separate confinement heterostructure multiple quantum well laser diodes/Carlin J. -F. R., Sallse J. -M., de Fays M. P. // *Optical Engineering* — 1995, 34, No. 7 — 1993~1999[英]

96221424

超微晶 Si 的量子约束效应和蓝色发光=超微结晶 Si 的量子闭じこめ効果と青色发光/赵新为,野村晋太郎,青柳克信 et al. // レーザー 科学研究 — 1995, No. 17 — 15~17[日]

2-4 干涉、衍射、偏振、折射、散射

96221425

GaAs/AlGaAs 二维电子气(2DEG)散射机理研究=Study on

scatterign mechanism of GaAs/AlGaAs two-dimensional electron gas (2DEG)/杨 斌,陈涌海,王占国 et al. // *半导体学报* — 1995, 16, No. 4 — 248~252[中]

96221426

化学激励钠原子相干反斯托克斯受激喇曼散射=Coherent anti-stokes stimulated raman scattering of a atoms by using chemical stimulated/孙程远// *光电子·激光* — 1995, 6, No. 4 — 245~248 [中]

96221427

激光反馈干涉-计算机细分的小位移测量=Small displacement measurement by using feed-back laser interferometer and computer subclivision/李天初,方占军,王文明 et al. // *计量学报* — 1995, 16, No. 3 — 196~199[中]

96221428

相移干涉显微镜中移相误差分析=Analysis of phase-shifting error in phase-shifting interferometric microscope/丁志华,王桂英,王之江// *计量学报* — 1995, 16, No. 4 — 262~268[中]

96221429

激光偏振干涉光路的非线性分析计算=Analysis and calculation on nonlinearity of the laser polarized interferometer/郭彦珍,邱宗明,李信// *计量学报* — 1995, 16, No. 4 — 273~279[中]

96221430

KrF 激光在 SF₆ 气体中受激布里渊散射的研究=SBS of KrF laser in SF₆ gas/汤秀章,姚刚,王孝君// *强激光与粒子束* — 1995, 7, No. 2 — 283~287[中]

96221431

滤波宽孔径非线性干涉仪中的场结构=О структурах поля в широкоапертурном нелинейном интерферометре с фильтрацией / Розанов Н. Н. // *Опт. и спектр.* — 1995, 98, No. 6 — 1007~1012 [俄]

96221432

具有椭圆高斯束的亚毫米高灵敏干涉仪=Высокочувствительный субмиллиметровый интерферометр с эллиптическим гауссовым пучком /Кубарев В. В. // *ПТЭ* — 1995, No. 4 — 117~120[俄]

96221433

采用四波混频取样域的毫米分辨光时域干涉测量术=Millimeter-resolution optical time-domain reflectometry using a four-wave mixing sampling gate/Schlager J. B., Jinno M., Franzen D. L. // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 206~208[英]

96221434

陡终止电介质-金属界面内表面等离子体激光-电磁激子的衍射=Diffraction of surface plasmon-polaritons in an abruptly terminated dielectric-metal interface/Jamid H. A., Al-Bader S. J. // *IEEE Photon Technol Lett* — 1995, 7, No. 3 — 321~323[英]

96221435

平面波导内凹面光栅的衍射=Diffraction from concave gratings in planar waveguides/McGreer K. A. // *IEEE Photon Technol Lett* — 1995, 7, No. 3 — 324~326[英]

96221436

红外半色调透明度中的衍射效应=Diffraction effects in IR halftone transparencies/Daniels A., Boreman G. D., Sapir E. // *Infrared Physics & Technology* — 1995, 36, No. 2 — 623~638 [英]

96221437

用于某些红外光热效应的实时观测的干涉法=Interferometric method for the observation in real time of some infrared photothermal effects/Blancher H., Occelli R., Mcnault J. M. // *International Journal of Infrared and Millimeter Waves* — 1994, 15, No. 3 — 539~548[英]

96221438

光折射媒质中由于四波相互作用造成的透射全息光栅的振幅和相位=The amplitude and phase of a transmission holographic grating due to four-wave interaction in a photorefractive medium/Rustamov F. A. // *Opt. & Q. E.* — 1995, 27, No. 2 — 117~126

96221439

来自光盘的光衍射=Diffraction of light from optical disks/Wang H. // *Optical Engineering* — 1995, 34, No. 4 — 1098~1104[英]

由不规则介质引起的新的光多重散射现象=不规则媒质による新しいレーザー光多重散乱現象/岡本卓,朝仓利光//レーザー研究-1995,23, No. 8-657~666[日]

共振高分子的时间分辨拉曼散射=共役高分子の時間分解ラマン散乱/寺井章//分光研究-1995,44, No. 3-155~156[日]

拉曼散射的应用(I)=ラマン散乱——应用(I)/小島誠治//分光研究-1995,44, No. 3-157~162[日]

拉曼散射的应用(II)=ラマン散乱——应用(II)/宇野公之,西村善文//分光研究-1995,44, No. 3-163~168[日]

2-5 激光光谱学

共线快束激光光谱学及其应用=Coilnear fast-beam laser spectroscopy and its applications/陆福全,施伟,杨福家//物理-1995,24, No. 1-30~36[中]

0~18甲醇在CO伸展态下的远红外激光谱线的指认=Assignments of far-infrared laser lines in the CO-stretching state of 0~18 methanol/Lees R. M., Goulding R. R. J., Zhao S.//International Journal of Infrared and Millimeter Waves-1994,15, No. 11-1883~1906[英]

在980nm泵浦的工作于2.7 μ m的掺ER³⁺高效连续波铈氟光纤激光器=Efficient ER³⁺-doped CW fluorozirconate fiber laser operating at 2.7 μ m pumped at 980nm/Frerichs C.//International Journal of Infrared and Millimeter Waves-1994,15, No. 4-635~650[英]

H₂³²S在0.82 μ m波段附近的二极管激光光谱学=Diode laser spectroscopy of H₂³²S around 0.82 μ m/Flaud J.-M., Grobklöb R., Rai S. B. et al.//J. Mater. Sci.-1995,172, No. 1-275~281[英]

HS₂基团远红外激光磁共振光谱的鉴别和分析=Identification and analysis of the far-infrared laser magnetic resonance spectrum of the HS₂ radical/Ashworth S. H., Evenson K. M., Brown J. M.//J. Mater. Sci.-1995,172, No. 1-282~295[英]

采用微波和毫米波傅里叶变换光谱术和边带激光光谱术测量三甲胺的转动光谱=The rotational spectrum of trimethylamine measured by microwave and millimeter-wave Fourier-transform spectroscopies and by sideband laser spectroscopy/Li X. L., Boquet R., Petitprez D. et al.//J. Mater. Sci.-1995,172, No. 2-449~455[英]

受高强度激光辐照的固态真空界面的谐波产生=Harmonic generation from solid-vacuum interface irradiated at high laser intensities/Kohlweyer S., Tsakiris G. D., Wahlstrom C.-G. et al.//Opt. Commun.-1995,117, No. 5~6-431~438[英]

在0.6635nm波导中激光产生的等离子体的时间分辨X射线单色图像=Time resolved X-ray monochromatic imaging of a laser-produced plasma at 0.6635nm wavelength/Dirksmoller M., Rancu O., Uschmann I. et al.//Opt. Commun.-1995,118, No. 3~4-379~387[英]

掺Nd³⁺钙,铈,镨石榴石激光输出的时间分辨X射线单色图像=Time resolved spectroscopy of laser output of Nd³⁺ doped calcium, niobium, gallium garnet/Azkargorta J., Iparraguirre I., Balda R. et al.//Opt. Commun.-1995,118, No. 5~6-562~564[英]

在钠蒸气中圆偏振激光束的空间隔离=Spatial separation of circularly polarized laser beams in sodium vapor/Robricht B., Mo-

Cord A. W., Brambilla M. et al.//Opt. Commun.-1995,118, No. 5~6-601~606[英]

鉴别半导体激光器的端面输出光谱=Identifying the output spectra from end facets of semiconductor lasers/Wu Z., Xia G., Chen J. et al.//Opt. Lett.-1995,20, No. 5-477~479[英]

射频离子阱中原子簇离子反应率的研究=Cluster ion reactivity study in a radiofrequency ion trap/Zhoag N., Matsuo Y., Tokami M.//レーザー科学研究-1995, No. 17-60~62[英]

基于皮秒激光的高分辨率双光子光电分光法=ピコ秒レーザーによる高分解能2光子光电分光法/坂下武,宗像利明 et al.//レーザー科学研究-1995, No. 17-98~100[英]

矩形量子线结构的发光谱与偏振的关系=矩形量子线构造からの发光スペクトルの偏光依存性/野村井太郎,一色秀夫,岩井庄八 et al.//レーザー科学研究-1995, No. 17-12~14

用激光二重共振分光法决定NO分子的电离能及在微波分光法中的应用=レーザー二重共鳴分光法によるNO分子のイオンエネルギーの決定とマイクロ波分光法的应用/小林彻,松尾由贺利,高见道生//レーザー科学研究-1995, No. 17-57~59[日]

分散在液氦的分子激光光谱学=Laser spectroscopy of molecules dispersed in liquid helium/Persson J. L., Hui Q., Nokamura M. et al.//レーザー科学研究-1995, No. 17-63~65[日]

超音速喷嘴内UF₆/CH₄混合气体的紫外光分解反应生成物=超音速ノズル内でのUF₆/CH₄混合ガスのUV光分解反応生成物/空闲良寿,里冈学,武内一夫//レーザー科学研究-1995, No. 17-104~106[日]

傅里叶变换微波光谱学=フーリエ変換マイクロ波分光法/远藤泰树//分光研究-1995,44, No. 3-117~130[日]

血红蛋白的激光光谱=复杂系的光物性——ミオグロビンのレーザー分光——を中心に/栉田孝司//日本物理学会志-1995,50, No. 5-348~354[日]

2-6 红外光谱学

多孔硅中两种不同的光致发光谱=Two kinds of photoluminescence spectra in porous silicon/廖良生,鲍希茂,闵乃本 et al.//半导体学报-1995,16, No. 2-145~148[中]

不同单晶硅衬底的多孔硅的拉曼和光致发光谱研究=Study on Ramam-and photoluminescence-spectra of porous silicon formed on different Si substrates/贾霖,王昕,张树霖 et al.//半导体学报-1995,16, No. 4-258~262[中]

GaP:(N)的背景光谱和发光尖峰=Background spectra and luminescence peaks of GaP:(N)/江炳熙,林秀华,方江陵//红外与毫米波学报-1995,14, No. 4-277~282[中]

多孔材料红外反射光谱的下塌现象——红外吸波材料机理探讨之二=Collapse phenomenon of IR reflection spectra of porous materials-exploration of mechanisms for infrared wave-absorbing materials(I)/张光寅,戴松涛,张存洲 et al.//红外与毫米波学报-1995,14, No. 4-283~288[中]

Mg:Fe:LiNbO₃晶体光折变增强效应的研究=Study on the enhancement of photorefractive effect of Mg:Fe:LiNbO₃ crystal/李铭华,王家昌,赵业权 et al.//红外与毫米波学报-1995,14, No. 5-387~390[中]

在接点形成期间InP的表面性能衰退-傅里叶变换红外分析=

Surface degradation of InP during contact formation-an FTIR analysis/Henry J., Livingatoue J. // *Infrared Physics & Technology* - 1995, 36, No. 3 - 655~660[英]

96221469

低密度聚乙烯的远红外光学常数对温度的依赖关系 = Temperature dependence of the FIR optical constants of low density polyethylene/Birch J. R., Kong F. P. // *Infrared Physics & Technology* - 1995, 36, No. 3 - 673~678[英]

96221470

角响应对傅里叶绝对谱测定术的影响 = Influence of the angular response on Fourier absolute spectrometry. The case of COBE-FIRAS/Giorgi P. G. // *Infrared Physics & Technology* - 1995, 36, No. 4 - 749~754[英]

96221471

0-18甲醇的扭曲旋转远红外光谱 = Torsion-rotation far-infrared spectrum of 0-18 methanol/Lees R. M., Gouloung R. R. J., Zhao S. // *International Journal of Infrared and Millimeter Waves* - 1994, 15, No. 12 - 2021~2030[英]

96221472

$^{13}\text{CH}_3\text{OH}$ C-O 伸缩模的二极管激光与傅里叶变换光谱 = Diode laser and fourier transform spectroscopy of the $^{13}\text{CH}_3\text{OH}$ C-O stretching mode/Pereira D., Cruz F. C., Moraes J. C. S. // *International Journal of Infrared and Millimeter Waves* - 1994, 15, No. 2 - 417~428[英]

96221473

远红外光谱用的新颖高透射高精细度的 F-P 干涉仪的可能性 = The possibility of new high-transmission, high finesse, Perot-Fabry interferometers for far IR spectroscopy/Gerbaux X., Hadni A., Josse M. // *International Journal of Infrared and Millimeter Waves* - 1994, 15, No. 5 - 775~782[英]

96221474

NH_3 宽带远红外喇曼散射中的同步效应 = Synchronization effects in broadband FIR Raman scattering in NH_3 /Marcheffi S., Simili R. // *International Journal of Infrared and Millimeter Waves* - 1994, 15, No. 7 - 1339~1346[英]

96221475

C-13 甲醇的受激扭转状态的远红外光谱 = Far-infrared spectrum of excited torsional states of C-13 methanol/Mukhopadhyay I., Lees R. M. // *International Journal of Infrared and Millimeter Waves* - 1995, 16, No. 1 - 99~116[英]

96221476

硅中被受主红外吸收光谱 = Infrared absorption spectrum of beryllium acceptors in silicon/Ho L. T., Lin F. Y., Lin W. J. // *International Journal of Infrared and Millimeter Waves* - 1995, 16, No. 2 - 339~348[英]

96221477

CuGeO_3 的亚毫米波段的电子自旋共振与远红外光谱测量 = Sub-millimeter wave ESR and far infrared spectroscopy measurements of CuGeO_3 /Ohta H., Yamamoto Y., Imagawa S. // *International Journal of Infrared and Millimeter Waves* - 1995, 16, No. 3 - 501~512[英]

96221478

SH 的傅里叶变换红外发射光谱学 = Fourier transform infrared emission spectroscopy of SH/Ram R. S., Bernath P. F., Engleman R. Jr. et al. // *J. Mater. Sci.* - 1995, 172, No. 1 - 34~42[英]

96221479

采用高分辨红外和毫米波光谱学探测短寿命 PH_2I 基态, ν_3 , ν_4 和 ν_6 受激态 = Detection of short-lived PH_2I by high resolution infrared and millimeter-wave spectroscopy: The ground, ν_3 , ν_4 , and ν_6 excited states/Beckers H., Bürger H., Demaison J. et al. // *J. Mater. Sci.* - 1995, 172, No. 1 - 78~90[英]

96221480

p-氟甲苯 A 型 730cm^{-1} 带的傅里叶变换红外光谱和旋转结构 = Fourier transform infrared spectrum and rotational structure of the A-type 730cm^{-1} band of p-fluorotoluene/Pal C., Chosh P. N. // *J. Mater. Sci.* - 1995, 172, No. 1 - 102~107[英]

96221481

HO_2 的远红外光谱 = Far-infrared spectrum of HO_2 /Chance K. V., Park K., Evenson K. M. et al. // *J. Mater. Sci.* - 1995, 172, No. 2 - 407~420[英]

96221482

HCCBr $2\nu_1$, ν_1 , $2\nu_1$ 和 $3\nu_1$ 带的高分辨振动-转动傅里叶变换红外光谱 = High-resolution vibration-rotation FTIR spectrum of the $2\nu_1$, ν_1 , $2\nu_1$ and $3\nu_1$ bands of HCCBr/Vaitinen O., Lukka T., Halonen L. et al. // *J. Mater. Sci.* - 1995, 172, No. 2 - 503~519[英]

96221483

CdTe 中简并双波混频中纳秒光脉冲自作用 = Self-action of nanosecond light pulses in CdTe in degenerate two-wave mixing/Borshch A. A., Volkov V. I., Mitzkan A. I. // *Optical Engineering* - 1995, 34, No. 4 - 999~1001[英]

96221484

小 SF_6 原子簇结构和红外光谱 I. 位势模型和原子簇结构 = Structures and IR-spectra of small SF_6 clusters I. potential model and cluster structures/Beu T. A., Takeuchi K. // *レーザー科学研究* - 1995, No. 17 - 107~109[英]

96221485

小 SF_6 原子簇的结构和红外光谱 II. 新的扰动频移研究 = Structures and IR-spectra of small SF_6 clusters II. A new perturbation approach for frequency shifts/Beu T. A., Takeuchi K. // *レーザー科学研究* - 1995, No. 17 - 110~112[英]

96221486

超音速喷嘴内 UF_6 的傅里叶变换红外光谱学 = 超音速ノズル内 UF_6 の FTIR 分光/谷村志乃夫, 冈田芳树, 武田一夫 // *レーザー科学研究* - 1995, No. 17 - 113~115[日]

2-7 等离子体物理学

96221487

热等离子体内的光电截面研究 = Photoionization cross section in plasmas based on the ion-sphere/孟续军, 孙永盛 // *强激光与粒子束* - 1995, 7, No. 3 - 422~426[中]

96221488

激光银等离子体 XUV 谱测量 = The XUV spectra of laser-produced Ag plasma/黄文忠, 何绍堂, 武德勇 et al. // *强激光与粒子束* - 1995, 7, No. 3 - 433~436[中]

96221489

等离子体焦点脉冲 X 射线源 = Pulsed X-ray source in plasmas focus/韩明, 罗承冰, 王克超 et al. // *强激光与粒子束* - 1995, 7, No. 3 - 461~466[中]

96221490

Cr^{21+} 电子碰撞激发截面和速率系数 = Excitation cross sections and rate coefficients of Cr^{21+} /周忠源, 张宪忠, 潘守甫 et al. // *强激光与粒子束* - 1995, 7, No. 3 - 472~474[中]

96221491

激光消融高温超导靶时产生的等离子体中 Ba^+ 离子的快速分布 = Скоростное распределение ионов Ba^+ в плазме возникающей при лазерной абляции высокотемпературной сверхпроводящей/Анисимов В. Н., Воробьев В. А., Гришнина В. Г. et al. // *Кван. электр.* - 1995, 22, No. 11 - 1096~1098[俄]

96221492

气溶胶等离子体对激光在气体中的吸收动力学产生的影响 = Влияние аэрозольной плазмы на динамику волны поглощения лазерного излучения в газе/Анисимов В. Н., Воробьев В. А., Гришнина В. Г. et al. // *Кван. электр.* - 1995, 22, No. 9 - 900~902[俄]

96221493

近表面高温飞秒等离子体空间分辨记录的发展 = Эволюция приповерхностной высокотемпературной фемтосекундной плазмы, регистрируемая с пространственным разрешением/Волков Р. В., Гордиенко В. М., Магницкий С. А. et al. // *Кван. электр.* - 1995, 22, No. 9 - 909~912[俄]

96221494

激光等离子体 X 射线源的开发 = レーザープラズマ X 線源の開発/宫泽佳苗, 广濑秀男, 安藤刚三 et al. // *レーザー科学研究* - 1995, No. 17 - 6~8[日]

2-8 激光化学

聚苯乙烯的激光闪光光解=Flash photolysis of polystyrene with laser/高文德,刘维铭,王守文 *et al.* // 强激光与粒子束-1995, 7, No. 3-456~460[中]

蓝绿激光和生化学=青绿色レーザーと生化学/神原秀记 // 光学-1995, 24, No. 11-687~688[日]

2-9 激光放大

弱信号在NeI潘宁激光器激活介质中的放大动力学=Динамика усиления слабого сигнала в активных средах пеннинговских лазеров NeI/Заряный Д. А., Холли И. В. // Кван. электр. -1995, 22, No. 9-913~918[俄]

甚低功率消耗半导体光放大器阵列=Very low power consumption semiconductor optical amplifier array/Kitamura S., Komatsu K., Kitamura M. // IEPTL-1995, 7, No. 2-147~148[英]

对感生能量转移对具高 Er^{3+}/Yb^{3+} 浓度的石英波导放大器性能的影响=The effect of pair-induced energy transfer on the performance of silica waveguide amplifiers with high Er^{3+}/Yb^{3+} concentrations/Federighi M., Di Pasquale F. // IEPTL-1995, 7, No. 3-303~305[英]

通过位移放大的铍玻璃放大器放大亚100TW飞秒脉冲:理论与实践=Amplification of sub-100TW femtosecond pulses by shifted Nd:glass amplifiers: theory and experiments/Blanchot N., Rouyer C., Sauteret C. *et al.* // Opt. Lett. -1995, 20, No. 4-395~397[英]

二极管泵浦的微芯片Nd:YVO₄放大器中的高效简并四波混频=Efficient degenerate four-wave mixing in a diode-pumped microchip Nd:YVO₄ amplifier/Brignon A., Feugnet G., Huignard J. P. *et al.* // Opt. Lett. -1995, 20, No. 6-548~550[英]

2-10 量子光学

相干光与混合态二能级原子相互作用的量子动力学=Quantum dynamics of a mixed-state two level atom interaction with the coherent light/刘世炳,罗开基 // 光子学报-1995, 24, No. 1-1~5[中]

Jaynes-cummings 模型中辐射场的振幅N次方压缩特性=The Nth power squeezing of field amplitude in the Jaynes-Cummings model/贺金玉,王继锁,王传奎 // 光子学报-1995, 24, No. 4-296~301[中]

激光冷却与囚禁的原子喷泉=Atomic fountains of laser cooled and trapped atoms/甘建华,王义道 // 物理-1995, 24, No. 8-462~469[中]

共振多光子电离过程的线型研究:激光带宽对功率增宽的影响=A lineshape study of resonant multiphoton ionisation process: effect of laser bandwidth on the power broadening/Cavalieri S., Eramo R. // Opt. Commun. -1995, 118, No. 3-4-245~249[英]

利用双光子干涉的反聚束=二光子干涉によるアンチバンチング/小芦雅斗,平野琢也,松冈正浩 // 日本物理学会志-1995, 50, No. 8-649~652[日]

2-11 非线性光学

非线性光学聚合物的电晕极化与弛豫特性研究=Study on the corona poling and relaxation of optical polymers/徐建东,王瑞波,

张雷 *et al.* // 光子学报-1995, 24, No. 1-30~35[中]

推拉型有机化合物的非线性特性研究=Study of nonlinear optical characters of push-pull azodenzene compounds/魏振乾,费洁生,鲍信先 *et al.* // 红外与毫米波学报-1995, 14, No. 4-310~316[中]

光折变空间孤子=Photorefractive spatial solitons/刘思敏 // 物理-1995, 24, No. 7-408~412[中]

用受激拉曼散射改变压缩氢中振动-前移弛豫的时间常数=Изменение постоянной времени колебательно-поступательной релаксации в сжатом подороде с использованием ВКР/Апаньев В. Ю., Лобанов А. Н., Лыткин А. П. *et al.* // ИАН, Сер. физ. -1995, 59, No. 6-100~108[俄]

聚焦高斯光束在移动随机不均匀性介质中行射时出现的多普勒效应的特性=Особенности проявления эффекта Доплера при дифракции сфокусированных пучков в движущихся случайно-неоднородных средах/Ульянов С. С. // ИАН, Сер. физ. -1995, 59, No. 6-151~155[俄]

激光等离子体的谐波振荡=Генерация гармоник излучения в лазерной плазме/Ганиев Р. А., Редкоречев В. И., Усманов Т. // Кван. электр. -1995, 22, No. 11-1086~1090[俄]

以简并四波相互作用为基础的相位共轭反射镜的噪声辐射功率=Мощность шумового излучения ОВФ-зеркал на основе вырожденного четырехволнового взаимодействия/Копалев В. И. // Кван. электр. -1995, 22, No. 11-1118~1122[俄]

共振 Λ 介质用作激光辐射的频率变换器=Резонансный Λ -среда как трансформатор частоты лазерного излучения/Косачев Д. В. // Кван. электр. -1995, 22, No. 11-1123~1128[俄]

色散光谱不均匀性对飞秒光孤子频率组合自变换的影响=Влияние дисперсионных спектральных неоднородностей на комбинационное самопреобразование частоты фемтосекундных оптических солитонов/Вислюх В. А., Серкули В. Н., Ланнлейко А. Ю. *et al.* // Кван. электр. -1995, 22, No. 11-1129~1139[俄]

具有克尔非线性各向异性的双折射光波导中的偏振作用=Поляризационные взаимодействия в двулучепреломляющих световодах при учете анизотропии керровской нелинейности/Гончаренко А. М., Корнеев Н. Н., Хило Н. А. // Кван. электр. -1995, 22, No. 9-925~928[俄]

双光子激励双激子时超短光脉冲与半导体薄片的非线性相互作用=Нелинейное взаимодействие УКН света с тонкой полупроводниковой пленкой при двухфотонном возбуждении биэкситонах/Наджи П. И., Гайпан С. Л. // Кван. электр. -1995, 22, No. 9-929~932[俄]

各向同性介质中粒子数的相干俘获和共振三波混频的效率的极大增强=Когерентное пленение населенностей и гигантское увеличение эффективности резонансного трехволнового смешивания изотропных сред/Архипкин В. Г., Мысливец С. А. // Кван. электр. -1995, 22, No. 9-933~935[俄]

光脉冲在含有准共振混合物的光波导中的相干传播.绝热跟踪近似=Когерентное распространение оптического импульса в световоде, содержащем квазирезонансные примеси. Приближение адиабатического следования/Маймистов А. И. // Кван. электр. -1995, 22, No. 9-936~940[俄]

相向光波在旋转同归线立方晶体中布拉格衍射时的光学不相关性=Оптическая невязанность для встречных световых волн при дифракции Брэгга в гиротропных кубических кристаллах/Курилкина

C. H. // *Квант. электр.* — 1995, 22, No. 9 — 936~940[俄]

96221521

借助于非线性增益减小暗孤子的高登-豪斯效应 = Reduction of Gordon-Haus effect on dark solitons by means of nonlinear gain/Matsumoto M., Ikeda H. // *Electron. Lett.* — 1995, 31, No. 6 — 482~483[英]

96221522

用于非归零光学传输方案的彩色畴壁孤子波 = Colour domain wall solitary waves for nonreturn-to-zero optical transmission scheme/Haelterman M. // *Electron. Lett.* — 1995, 31, No. 9 — 741~743[英]

96221523

共掺杂 Dy^{3+} 、 Er^{3+} 的 YBr_3 磷化物 $1.3\mu m$ 向可见波长有效上转换 = Efficient $1.3\mu m$ to visible upconversion in Dy^{3+} and Er^{3+} codoped YBr_3 phosphor/Ohwaki J. // *Electron. Lett.* — 1995, 31, No. 9 — 752~753[英]

96221524

有效高增益双晶参量振荡器 = Efficient high-gain two-crystal optical parametric oscillator/Moore G. T., Koch K. // *IEEE J. Q. E.* — 1995, 31, No. 5 — 761~768[英]

96221525

用有限截面泵浦光束的参量荧光的热光点 = Hot spots in parametric fluorescence with a pump beam of finite cross section/Koch K., Cheung E. C., Moore G. T. et al. // *IEEE J. Q. E.* — 1995, 31, No. 5 — 769~781[英]

96221526

无伪根的统一化标准非线性波导色散方程 = Unified nonlinear waveguide dispersion equations without spurious roots/Li Y.-F., Lizuka K. // *IEEE J. Q. E.* — 1995, 31, No. 5 — 791~794[英]

96221527

用于非线性器件的 KTP 的温度色散 = Temperature dispersion in KTP for nonlinear devices/Ghosh G. // *IEPTL* — 1995, 7, No. 1 — 68~70[英]

96221528

反射光混合器的偏振非相关相位共轭 = Polarization-independent phase conjugation in a reflective optical mixer/Giles C. R., Mizrahi V., Erdogan T. // *IEPTL* — 1995, 7, No. 1 — 126~128[英]

96221529

采用电吸收调制器有效产生谐波 = Efficient harmonic generation using an electroabsorption modulator/Moodie D. G., Wake D., Walker N. G. et al. // *IEPTL* — 1995, 7, No. 3 — 312~314[英]

96221530

受激布里渊散射和最佳长度对光纤四波混频波长转换的影响 = Influence of stimulated Brillouin scattering and optimum length in fiber four-wave mixing wavelength conversion/Inoue K., Hasegawa T., Toba H. // *IEPTL* — 1995, 7, No. 3 — 327~329[英]

96221531

半导体激光放大器中的非线性 = Nonlinearities in semiconductor laser amplifiers/Adams M. J., Davies D. A. O., Tatham M. C. et al. // *Opt. & Q. E.* — 1995, 27, No. 1 — 1~14[英]

96221532

CS_2 和十二烷基苯的三阶非线性磁化率 $X^{(3)}$ 与温度的关系 = The temperature dependence of the third-order nonlinear susceptibility $X^{(3)}$ of CS_2 and dodecylbenzene/Dang F.-X., Wu B.-S. // *Opt. & Q. E.* — 1995, 27, No. 3 — 155~158[英]

96221533

用于激光倍频的稳定高透射非线性光学聚合物 = Stable highly transparent nonlinear optical polymer for laser frequency doubling/Cazeca M., Jiang X. L., Masse C. E. et al. // *Opt. Commun.* — 1995, 117, No. 1~2 — 127~132[英]

96221534

在光栅耦合器上二次谐波产生的非线性零区 = Nonlinear zeros in second-harmonic generation at grating couplers/Reinisch R., Coutaz J. I., Roux J. F. et al. // *Opt. Lett.* — 1995, 20, No. 4 — 347~349[英]

96221535

超强致玻璃激光脉冲的高效二次谐波产生 = Highly efficient second-harmonic generation of ultraintense Nd:glass laser pulses/Chien C. Y., Korn G., Coe J. S. et al. // *Opt. Lett.* — 1995, 20, No. 4 — 353~355[英]

96221536

沿四倍晶体对称轴的镜面反射非线性各向异性偏振效应 = Specular nonlinear anisotropic polarization effect along fourfold crystal symmetry axes/Bungay A. R., Popov S. V., Zheludev N. I. et al. // *Opt. Lett.* — 1995, 20, No. 4 — 356~358[英]

96221537

非线性光学环形反射镜中的带通开关 = Bandpass switching in a nonlinear-optical loop mirror/Pattison D. A., Kean P. N., Porysiak W. et al. // *Opt. Lett.* — 1995, 20, No. 4 — 362~364[英]

96221538

二次谐波产生中的调制不稳定性 = Modulational instability in second-harmonic generation/Trillo S., Ferro P. // *Opt. Lett.* — 1995, 20, No. 5 — 438~440[英]

96221539

具有双光子吸收和宽带光学增益的单模光纤中的孤子波 = Solitary waves in a single-mode fiber with two-photon absorption and bandwidth-limited optical gain/Liu S.-I., Wang W.-Z., Xu J.-Z. // *Opt. Lett.* — 1995, 20, No. 5 — 450~452[英]

96221540

严格区分表面和体积分立方中心对称介质中各向异性二次谐波产生的贡献 = Exact separation of surface and bulk contributions to anisotropic second-harmonic generation from cubic centrosymmetric media/Bottomley D. J., Lüpke G., Meyer C. et al. // *Opt. Lett.* — 1995, 20, No. 5 — 453~455[英]

96221541

非线性自相位调制效应: 矢量一阶微扰法 = Nonlinear self phase-modulation effects: a vectorial first-order perturbation approach/Tzolov V. P., Fontaine M., Godbout N. et al. // *Opt. Lett.* — 1995, 20, No. 5 — 456~458[英]

96221542

独立偏振的非线性光学环形反射镜分离器中偏振群速度色散效应的分析 = Analysis of the polarization group-velocity dispersion effect in polarization-independent nonlinear-optical loop mirror demultiplexers/Desruelle B., Desurvire E., Bigo S. // *Opt. Lett.* — 1995, 20, No. 5 — 516~518[英]

96221543

零差表面二次谐波产生 = Homodyne surface second-harmonic generation/Thiansathaporn P., Superfine R. // *Opt. Lett.* — 1995, 20, No. 6 — 545~547[英]

96221544

聚乙烯醇-聚乙烯苯胺相互穿插的聚合物网的非线性光学特性 = Nonlinear-optical properties of a poly(vinyl alcohol)-polyaniline interpenetrating polymer network/Petrov D. V., Gomes A. S. L., de Araujo C. B. et al. // *Opt. Lett.* — 1995, 20, No. 6 — 554~556[英]

96221545

非线性光学波导中的超短脉冲正交压缩 = Quadrature squeezing with ultrashort pulses in nonlinear-optical waveguides/Anderson M. E., Beck M., Raymer M. G. et al. // *Opt. Lett.* — 1995, 20, No. 6 — 620~622[英]

96221546

缓冲气体对 Si_2F_6 红外多光子激励的影响 = Si_2F_6 的红外多光子激励におけるバッファガスの効果/岡村秀树, 石黒阳介, Tosa V. et al. // *レーザー科学研究* — 1995, No. 17 — 69~71[日]

96221547

利用钾蒸气中的受激拉曼散射对锁模钛宝石激光进行红外外区波长变换 = カリウム蒸気中での誘導ラマン散乱によるモード同期 $Ti:Al_2O_3$ レーザーの赤外域波长変換/大出寿, 林樹杰, 箕曲在道 et al. // *レーザー科学研究* — 1995, No. 17 — 89~91[日]

96221548

BSO 晶体中四波混频相位共轭信号的偏振特性 = Polarization

characteristics of the phase-conjugate signal in four-wave mixing in BSO crystal/Nareid H., Yamaguchi I., Kato J. // *レーザー科学研究* - 1995, No. 17-122~125[日]

96221549

利用极化反转型 LiTaO_3 光导的二次谐波产生蓝光光源 = 分极反转型 LiTaO_3 光导波路を用いた SHG 方式ブルー光源/北岡康夫, 水内公典, 山本和久 *et al.* // *レーザー研究* - 1995, 23, No. 9-788~794[日]

96221550

体块二次谐波发生的最近发展动向 = バルク SHG の最近の动向/岡美智雄 // *光技術コンタクト* - 1995, 33, No. 5-253~260[日]

96221551

半导体中光的共振二次谐波发生 = 半导体における光第2高調波の共振発生/南不二雄, 井上久达 // *日本物理学会志* - 1995, 50, No. 6-455~462[日]

2-12 其它理论

96221552

δ 掺杂的赝配 HEMT $\text{AlGaAs}/\text{InGaAs}/\text{GaAs}$ 结构的光电流谱 = Photocurrent spectroscopy of δ -doped HEMTs $\text{Al}_{0.30}\text{Ga}_{0.70}\text{As}/\text{In}_{0.15}\text{Ca}_{0.85}\text{As}/\text{GaAs}$ /沈文忠, 黄醒良, 唐文国 *et al.* // *半导体学报* - 1995, 16, No. 2-107~112[中]

96221553

$\text{GaAs}-\text{Al}_x\text{Ga}_{1-x}\text{As}$ 异质结构界面光激发过剩电子的热辅助隧穿俘获 = Capture of photo-induced excess electrons of $\text{GaAs}-\text{Al}_x\text{Ga}_{1-x}\text{As}$ heterostructures by thermal phonon assisted tunneling/何礼熊 // *半导体学报* - 1995, 16, No. 4-253~257[中]

96221554

用光电导研究不同厚度未掺杂 MOCVD GaAs 外延层自由激子 = Investigation of free excitons in undoped MOCVD GaAs epitaxial layer of different thicknesses by photoconductivity/吴凤美, 施毅 Parenteau M. *et al.* // *红外与毫米波学报* - 1995, 14, No. 4-263~270[中]

96221555

$\text{RBa}_2\text{Cu}_3\text{O}_{7-x}$ ($R=Y, \text{Pr}$) 薄膜中非平衡载流子的超快弛豫动力学 = Ultrafast relaxation dynamics of nonequilibrium carriers in $\text{RBa}_2\text{Cu}_3\text{O}_{7-x}$ ($R=Y, \text{Pr}$) film/皮飞鹏, 林位株, 曾文生 *et al.* // *红外与毫米波学报* - 1995, 14, No. 4-289~294[中]

96221556

紫外线辐照能对 $\text{BaFCl}:\text{Eu}^{2+}$ 光激励发光的影响 = The influence of ultraviolet-irradiation energy on the photostimulated luminescence of $\text{BaFCl}:\text{Eu}^{2+}$ phosphors/王永生, 张光寅, 张雪强 *et al.* // *红外与毫米波学报* - 1995, 14, No. 4-295~298[中]

96221557

电化学引起 $\text{Si}:\text{Er}^{3+}$ 材料 $1.54\mu\text{m}$ 发光增强 = The anodization induced $1.54\mu\text{m}$ luminescent intensification of the SiEr^{3+} material/周咏东, 金亿鑫, 李 仅 *et al.* // *红外与毫米波学报* - 1995, 14, No. 4-317~320[中]

96221558

微波毫米波段真空微电子器件中的电子学问题 = Electronic problems in microwave and millimeter wave vacuum microelectronic devices (MMW-VMD)/刘光治, 庄学曾, 胡汉泉 // *红外与毫米波学报* - 1995, 14, No. 5-366~374[中]

96221559

离子通道电子回旋脉塞 = Ion-channel electron cyclotron maser/唐昌建, 刘雅妮, 刘盛纲 // *红外与毫米波学报* - 1995, 14, No. 6-407~412[中]

96221560

毫米波矩形介质波导传播特性的 FDTD 分析 = Analysis of the millimeter wave propagation in a rectangular dielectric waveguide using FDTD method/吴祥应, 徐得名, 肖衍明 *et al.* // *红外与毫米波学报* - 1995, 14, No. 6-413~418[中]

96221561

非均匀介质填充波导法传输特性的数值模式匹配分析法 = Analysis of the transmission characteristics for inhomogeneous media-filled waveguides with the numerical mode matching method/潘 锦, 聂在平 // *红外与毫米波学报* - 1995, 14, No. 6

-467~470[中]

96221562

铁磁膜双皱纹波导中非线性静磁表面波的禁带频移 = Stopband shifts of nonlinear magnetostatic surface wave in ferromagnetic slabs with double corrugated surfaces/褚君浩, 肖继荣, 沈学础 // *红外与毫米波学报* - 1995, 14, No. 6-475~479[中]

96221563

束流输运理论的新表述 = A new representation of beam transport theory/施义晋, 翁自立, 杨真媛 // *强激光与粒子束* - 1995, 7, No. 3-381~387[中]

96221564

氨基衍生物中分子内电荷转移的皮秒动力学 = Пикосекундная динамика внутримолекулярного переноса заряда в аминпроизводных бензофенона/Борисевич Н. А., Казберук Д. А., Мельничук С. В. *et al.* // *ЖПС* - 1995, 62, No. 3-49~55[俄]

96221565

多原子分子中振荡能量的碰撞转移 = Столкновительная передача колебательной энергии в парах многоатомных молекул/Залеская Г. А., Яковлев Д. Л. // *ЖПС* - 1995, 62, No. 3-73~78[俄]

96221566

模相干吸收的同步理论. 跃迁过程和稳定性分析 = Теория синхронизации мод с когерентным поглотителем. Переходные процессы и анализ устойчивости/Коалов В. В. // *ЖЭТФ* - 1995, 107, No. 2-360~375[俄]

96221566

带饱和吸收体的宽孔径激光器中光的类微粒子结构 = Частицеподобные структуры света в широкоапертурном лазере с насыщающимся поглощением/Розанов Н. Н., Федоров А. В., Федоров С. В. *et al.* // *ЖЭТФ* - 1995, 107, No. 2-376~392[俄]

96221568

以电光晶体为基础的多层结构中有关联合光学存储效应的研究 = Исследование эффекта ассоциативной оптической памяти в многослойных структурах на основе электрооптических кристаллов/Бережной А. А., Шерстнева Т. Н. // *ИАН, Сер. физ.* - 1995, 59, No. 6-42~48[俄]

96221569

以 $\text{Bi}_{12}\text{SiO}_{20}$ 为基础的平面光散射结构中光信号模拟变换的研究 = Исследование аналоговых преобразований оптических сигналов в планарных фоторефрактивных структурах на основе кристаллов $\text{Bi}_{12}\text{SiO}_{20}$ /Бережной А. А., Плахотин А. И., Шерстнева Т. Н. // *ИАН, Сер. физ.* - 1995, 59, No. 6-49~54[俄]

96221570

NeI 潘宁激光器激活介质中的不稳定吸收动力学 = Динамика нестационарного поглощения в активных средах пеннинговских лазеров на NeI /Зайрный Д. А., Холли И. В. // *Квант. электр.* - 1995, 22, No. 9-919~921[俄]

96221571

里德堡原子 NaI 的 S, P 和 D 态的精细项结构和量子缺陷 = Квантовый дефект и тонкая структура термов ридберговских атомов NaI в $S--P$ и D -состояниях/Дюбко С. Ф., Ефименко М. Н., Ефимов В. А. *et al.* // *Квант. электр.* - 1995, 22, No. 9-946~950[俄]

96221572

铜网格在 $118.8\mu\text{m}$ 波段处的透射特性 = Transmission characteristics of copper mesh at $118.8\mu\text{m}$ /Nardei M., Prunty S. L. // *Infrared Physics & Technology* - 1995, 36, No. 3-669~672[英]

96221573

GaP 的直接与间接能隙的预期修正 = Predicted modifications in the direct and indirect gaps of GaP /Bouhafs B., Ferhat M., Amrane N. // *Infrared Physics & Technology* - 1995, 36, No. 4-791~798[英]

96221574

对于缺氧 YBCO 薄膜的远红外电导率的超德鲁特贡献 = Extra-Drude contribution to the far infrared conductivity of oxygen deficient YBCO films/Dore P., Paolone A., Tatoni S. // *International Journal of Infrared and Millimeter Waves* - 1994, 15, No. 4-723~738[英]

具有激活中心的光折射晶体中的四波混频的正和负反馈效应 = Positive and negative feedback effects of four-wave mixing in photorefractive crystals with two active centres/Rustamov F. A., Sadykhov E. A. // *Opt. & Q. E.* — 1995, 27, No. 4 — 249~260 [英]

掺 Ho^{3+} 硫化物和重金属氧化物玻璃的中红外光发射特性 = Mid-infrared light emission characteristics of Ho^{3+} -doped chalcogenide and heavy metal oxide glasses/Shin Y. B., Jang J. N., Heo J. // *Opt. & Q. E.* — 1995, 27, No. 5 — 379~386 [英]

耦合输出强烈影响金属包覆波导偏振器特性 = Strong effect of output coupling on the performance of metal-clad waveguide polarizers/Saini M., Sharma E. K., Singh M. P. // *Opt. Lett.* — 1995, 20, No. 4 — 365~367 [英]

采用平面全息偶极子的傅里叶变换 = Fourier transformation with a planar holographic doublet/Reinhorn S., Gorodeisky S., Friesem A. A. et al. // *Opt. Lett.* — 1995, 20, No. 5 — 495~497 [英]

通过采用受激布里渊散射从任意比特率的数据流中复原光学时钟 = Optical clock recovery from a data stream of an arbitrary

bit rate by use of stimulated Brillouin scattering/Butler D. L., Wey J. S., Chbat M. W. et al. // *Opt. Lett.* — 1995, 20, No. 6 — 560~562 [英]

空-时,空-频范畴中复杂相干程度之间的依赖关系 = Relationships between the complex degrees of coherence in the space-time and in the space-frequency domains/Friberg A. T., Wolf E. // *Opt. Lett.* — 1995, 20, No. 6 — 623~625 [英]

在玻璃基质上生长的准-零-维 $\text{CdS}_x\text{Se}_{1-x}$ 微晶的光学性质 = Optical properties of quasi-zero-dimensional $\text{CdS}_x\text{Se}_{1-x}$ crystallites grown in a glass matrix/Kulish N. R., Kunets V. P., Lisitsa M. P. // *Optical Engineering* — 1995, 34, No. 4 — 1054~1071 [英]

共振光学探测 = Resonant optical detection/Effenberger F. J., Joshi A. M. // *Optical Engineering* — 1995, 34, No. 4 — 1094~1097 [英]

波导型 LiTaO_3 倍频器相位匹配波长的调谐 = Tuning of phase-matching wavelength in waveguide-type LiTaO_3 frequency doubler/Mizuuchi K., Kiaoka Y. // *Electron. Lett.* — 1995, 31, No. 9 — 727~729 [英]

三、实验技术

3-1 谐振腔及泵浦源

用亚泊松光学激光器的光对微型微波激光器激活介质的激励 = Возбуждение активной среды микролазера светом субпассонского оптического лазера/Голубев Ю. М. // *ЖЭТФ* — 1995, 107, No. 2 — 401~413 [俄]

含克尔透镜共振腔的计算 = Расчет резонатора с керровской линзой/Тулин И. В. // *Кван. электр.* — 1995, 22, No. 9 — 955~958 [俄]

纵向纳秒放电氩氢混合气件潘宁等离子体激光器的最佳激励参数 = Оптимизация параметров возбуждения пеннинговского плазменного лазера на смеси неон-водород продольным наносекундным разрядом/Аптурбеков Н. А., Борисов В. В., Егоров В. С. et al. // *Опт. и спектр.* — 1995, 78, No. 6 — 999~1003 [俄]

用分子束外延法生长的垂直腔的周期性模迁移 = Periodic mode shift in vertical cavities grown by molecular beam epitaxy/Eng L. E., Toh K., Bacher K. et al. // *IEEE Photon Technol Lett* — 1995, 7, No. 3 — 235~237 [英]

共振腔调谐对垂直腔激光器横模的影响 = Influence of cavity tuning on the transverse mode in vertical-cavity lasers/Royers T. J., Huffaker D. L., Deng H. et al. // *IEEE Photon Technol Lett* — 1995, 7, No. 3 — 238~240 [英]

使增益开关半导体激光器脉宽最小的共振腔优化 = Cavity optimization for minimum pulsewidth of gain-switched semiconductor lasers/Helkey R. J., Arakawa Y. // *IEEE Photon Technol Lett* — 1995, 7, No. 3 — 272~274 [英]

小孔耦合对内腔光脉冲横向结构的影响 = The influence of hole-coupling on the transverse structure of intra-cavity light pulses/van Werkhoven G. H. C., Faatz B., Schep T. J. // *Nucl. Instrum. & Methods Phys. Resear. A* — 1995, A358, No. 1~3 — 300~304 [英]

3-2 调Q、锁模

$\text{Nd}:\text{YLF}$ 单纵模调Q激光器腔内脉冲稳幅的实验研究 = Experimental study on pulse amplitude stabilization in a Q-switched single longitudinal mode $\text{Nd}:\text{YLF}$ laser/郭小东, 陈绍和, 王世绩 et al. // *光学学报* — 1995, 15, No. 6 — 826~828 [中]

用负反馈控制锁模技术产生次秒激光脉冲 = Generation of picosecond pulse by negative feedback-controlled mode-locked Nd_2glass laser/景峰, 隋展, 丁磊 et al. // *强激光与粒子束* — 1995, 7, No. 2 — 304~308 [中]

碰撞锁模脉冲激光器研究 = A ring-cavity colliding-pulse mode-locking ultrashort pulse laser/张树葵, 文国庆, 周丕甫 et al. // *强激光与粒子束* — 1995, 7, No. 3 — 472~474 [中]

克尔介质自锁模激光器的锁模启动及稳定性理论初探 = Theory of the operation and stability of Kerr medium self-mode-locking lasers/孙 逊, 王清月 // *物理* — 1995, 24, No. 7 — 414~416 [中]

用于可见和近红外区的小型被动Z色心碱——卤晶体Q开关 = Малогабаритные пассивные лазерные атторы на основе щелочно-галогенных кристаллов с Z-центрами окраски для видимой и ближней инфракрасной областей/Брюклин В. В., Пензина Э. Э., Попов Л. Г. et al. // *ИАН, Сер. физ.* — 1995, 59, No. 6 — 34~41 [俄]

掺Ti蓝宝石飞秒激光器中非饱和增益的自调制 = Автомодуляция ненасыщенного усиления фемтосекундным лазером на сапфире, легированном Ti/Ангелуц А. А., Кобелев Д. Ю., Кридач Л. П. et al. // *Кван. электр.* — 1995, 22, No. 11 — 1099~1102 [俄]

以自聚焦为基础的固体激光器的模同步 = Синхронизация мод твердотельных лазеров на основе самофокусировки/Калашников В. Л., Калюша В. П., Михайлов В. П. et al. // *Кван. электр.* — 1995,

22, No. 11—1103~1106[俄]

96221599

用线性和非线性频移使连续固体激光器的模同步 = Синхронизация мод непрерывных твердотельных лазеров за счет линейного и нелинейного частотных сдвигов/Калашников В. Л., Калашова В. П., Михайлов В. П. // Квант. электр. — 1995, 22, No. 11—1107~1106[俄]

96221599

外部可变电场中光致折变晶体内的空间光相位自调制 = Пространственная фазовая самомодуляция света в фоторефрактивных кристаллах во внешнем переменном поле/Зельдонич Б. Я., Катаевский Н. Г., Кундикова Н. Д. et al. // Квант. электр. — 1995, 22, No. 11—1161~1162[俄]

96221601

二能级原子在调制辐射强场中的准能量谱 = Спектр квазиэнергии двухуровневого атома в поле интенсивного модулированного излучения/Смирнов М. З. // Квант. электр. — 1995, 22, No. 9—903~908[俄]

3-4 传 输

96221602

人造信标自适应光学系统中的非等晕性 = Anisoplanatism in adaptive optics using synthetic beacons/王英俭// 强激光与粒子束 — 1995, 7, No. 2—195~198[中]

96221603

分流环型绝热过渡区双螺旋线 Wiggler 束流传输实验 = The design with the staggered loops at the entrance region of bifilar helical wiggler and its e-beam transport experiment/胡建平, 胡克松, 陈裕涛// 强激光与粒子束 — 1995, 7, No. 2—219~224[中]

96221604

风速与风向对小尺度热不稳定性影响 = Effects of wind direction and gradient on small scale thermal blooming instability/王英俭, 吴毅, 汪超 et al. // 强激光与粒子束 — 1995, 7, No. 3—449~452[中]

96221605

螺旋形状纤维光波导对光传播的影响 = Влияние спиральной формы волоконного световода на распространение света/Катаевская Н. В., Кундикова Н. Д. // Квант. электр. — 1995, 22, No. 9—959~960[俄]

96221606

采用上下可调频率波导滤光片的孤子传播 = Soliton propagation with up-and down-sliding-frequency guiding filters/Golovchenko E. A., Pilipetskii A. N., Menyuk C. K. et al. // Opt. Lett. — 1995, 20, No. 6—539~541[英]

96221607

卫星-地面间的双向激光传输实验成功 = 卫星-地上间的双方向レーザー伝送実験に成功// O plus E — 1995, No. 191—52~52[日]

96221608

环状光束在多通盒中的传输和拉曼变换 = 环状ビームのマルチパスセルにおける伝搬とラマン変換/高崎拓哉, 須田亮, 佐藤一美 et al. // レーザー科学研究 — 1995, No. 17—18~20[日]

3-5 光电子技术与集成光学

96221609

用离子束刻蚀法制作层状液相外延脊型磁光波导 = Preparation of ridged waveguide of double magneto-optic film using ion-beam etching/欧阳嘉, 张颖, 何华辉// 光子学报 — 1995, 24, No. 2—190~192[中]

96221610

我国信息光电子器件与技术研究开发的若干进展 = The progress of R&D on information optoelectronic device and technology in China/周炳昆// 激光与红外 — 1995, 25, No. 4—3~5[中]

96221611

化学束外延在光电子技术应用中的进展 = Progress in CBE on the application of optoelectronic technology/周增圻// 激光与红

外 — 1995, 25, No. 4—6~10[中]

96221612

电介质中的光致自由电离-被动电子-空穴 = Радиoluminesценция свободных ионизационно-пассивных электронов и дырок в диэлектриках/Байсбурд Л. И., Пальинов П. А., Семин Б. Н. // ЖПС — 1995, 62, No. 3—131~137[俄]

96221613

激光束焊接的精密薄板的光致应变测量 = Photometrische Dehnungsmessung laserstrahl-geschweißter Feinbleche/Haferkamp H., Bach Fr. W., Marquering M. et al. // Laser Magazin — 1995, No. 6—13~15[德]

96221614

微电子技术中的新构形法: 硅刻槽 = Vergraben im Silizium; Neues Strukturierungsverfahren in der Mikroelektronik// Laser Magazin — 1995, No. 6—51~51[德]

96221615

使用双模半导体激光器的小型毫米波光源 = Compact optical millimetre-wave source using a dual-mode semiconductor laser/Lima C. R. // Electron. Lett. — 1995, 31, No. 5—364~366[英]

96221616

用 GaAs 自适应光电探测器宽带探测 10MHz 频率范围的相位调制 = Broadband detection of phase modulation in 10MHz frequency range using a GaAs adaptive photodetector/Korneev N. // Electron. Lett. — 1995, 31, No. 6—483~485[英]

96221617

半带隙 AlGaAs 最小非线性有效区的设计和开关能量 = Waveguide design for minimum nonlinear effective area and switching energy in AlGaAs at half the bandgap/Villeneuve A. // Electron. Lett. — 1995, 31, No. 7—549~551[英]

96221618

主码光学 CDMA 的性能分析 = Performance analysis of optical CDMA with prime codes/Yang G. C. // Electron. Lett. — 1995, 31, No. 7—569~571[英]

96221619

串级混合型石英光纤和氟化物光纤基放大器的多波长增益和信噪比偏移 = Multiwavelength gain and signal/noise ratio excursion of cascaded hybrid silica and fluoride-fibre-based amplifiers/Semenkoff M. // Electron. Lett. — 1995, 31, No. 7—575~576[英]

96221620

用于平行光互连的集成光学/光电子开关 = Integrated optical/optoelectronic switch for parallel optical interconnects/Lu Y. C., Cheng J. // Electron. Lett. — 1995, 31, No. 7—579~581[英]

96221621

制作在 GaAs 半绝缘衬底上的 0.1THz 矩形波导 = 0.1THz rectangular waveguide on GaAs semi-insulating substrate/Lucyszyn S. // Electron. Lett. — 1995, 31, No. 9—721~723[英]

96221622

垂直腔激光二极管和折射 GaAs 微透镜的单片集成 = Monolithic integration of vertical-cavity laser diodes with refractive GaAs microlenses/Strzelecka E. M. // Electron. Lett. — 1995, 31, No. 9—724~726[英]

96221623

石英基阵列波导光栅回路作为光学分裂器和发送器 = Silica-based arrayed-waveguide grating circuit as optical splitter/router/Inoue Y. // Electron. Lett. — 1995, 31, No. 9—727~729[英]

96221624

对于准相位匹配 LiTaO₃ 波导的相位匹配波长的漂移 = Drift of phasematching wavelength for quasi-phasematching LiTaO₃ waveguides/Ahifeid H., Laurell F. // Electron. Lett. — 1995, 31, No. 9—750~752[英]

96221625

存储器强度计算的标量有限差域法用于导波光学 = Reduced storage-intensive algorithm for the scalar finite-difference time-domain approach to guided-wave optics/Lui W. W., Yokoyama K. // Electron. Lett. — 1995, 31, No. 9—753~755[英]

96221626

由金属-半导体-金属光电二极管、垂直腔表面发射激光器,以及一些金属-半导体场效应晶体管组成的单片集成光开关=Monolithically integrated photonic switching device using an MSM PD, MESFET's, and a VCSFL/Matsuo S., Nakahara T., Kohama Y. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 10 — 1165~1167[英]

96221627

在电学上与硅电路垂直互连的 8×8 薄膜光电探测器阵列=8 $\times$ 8 Array of thin-film photodetectors vertically electrically interconnected to silicon circuitry/Fike S. M., Buchanan B., Jokerst N. M. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 10 — 1168~1170[英]

96221628

由选择性量子阱互扩散法制成的InGaAsP-InP应变层分布反馈激光器和外调制器的单片集成器件=Monolithic integration of InGaAsP-InP strained-layer distributed feedback laser and external modulator by selective quantum-well interdiffusion/Ram-dane A., Krauz P., Rao E. V. K. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 9 — 1016~1018[英]

96221629

采用一步生长法制备的由分布布拉格反射激光器、探测器和透明波导组成的单片集成器件=Monolithically integrated DBR laser, detector, and transparent waveguide fabricated in a single growth step/Hofstetter D., Zappe H. P., Epler J. E. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 9 — 1022~1024[英]

96221630

采用将薄膜InP为基础材料的发射器和探测器集成在一起的通过多层硅电路的通讯=Communication through stacked silicon circuitry using integrated thin film InP-based emitters and detectors/Jokerst N. M., Camperi-Ginestet C., Buchan B. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 9 — 1028~1030[英]

96221631

一种新型的短波长低损耗被动偏振InP转换器=A new short and low-loss passive polarization converter on InP/Van der Tol J. J. G. M., Hakimzadeh F., Pedersen J. W. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 1 — 32~34[英]

96221632

基于三耦合反共振反射光波导的波长选择器件=A wavelength selective device based on three coupled antiresonant reflecting optical waveguides/Trutschel U., Delisle V., Duguay M. A. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 1 — 35~37[英]

96221633

采用硅表面微机械加工校准反射镜的光电子组装=Optoelectronic packaging using silicon surface-micromachined alignment mirrors/Asakawa S., Kokubun Y. // *IEEE Photon Technol Lett* — 1995, 7, No. 1 — 38~40[英]

96221634

采用锯齿角面的光混合集成电路中波导面发射的衰减=Reduction of waveguide facet reflection in optical hybrid integrated circuit using saw-toothed angled facet/Ogawa I., Yamada Y., Terui H. // *IEEE Photon Technol Lett* — 1995, 7, No. 1 — 44~46[英]

96221635

共掺MgO, Co Ti:LiNbO₃波导中低损耗锐弯曲数值最优化过程=Numerical optimization procedure for low-loss sharp bends in MgO Co-doped Ti:LiNbO₃ waveguides/Mansour I., Someda C. G. // *IEEE Photon Technol Lett* — 1995, 7, No. 1 — 81~83[英]

96221636

采用光扫描隧道显微镜对光波导的高空间分辨诊断=High spatial resolution diagnostics of optical waveguides using a photon scanning tunneling microscope/Toda Y., Ohtsu M. // *IEEE Photon Technol Lett* — 1995, 7, No. 1 — 84~86[英]

96221637

InP上含偏振多样性接收器光电子集成电路的首次外差接收前端组件=First heterodyne receiver frontend module including a polarization diversity receiver OEIC on InP/Hamacher M., Trom-

mer D., Heidrich H. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 179~181[英]

96221638

用于长波长透射系统的12Gb/s高性能高灵敏度单片p-i-n/异质结双极晶体管光电接收器组件=A 12-Gb/s high-performance, high-sensitivity monolithic p-i-n/HBT photoreceiver module for long-wavelength transmission systems/Lunardi L. M., Chandrasekhar S., Gnauck A. H. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 182~184[英]

96221639

InP上Wannier-斯塔克-调制器与应变多量子阱分布反馈布喇格1.55 μ m激光器的单片集成=Monolithic integration on InP of a Wannier Stark modulator with a strained MQW DFB 1.55- μ m laser/Allovon M., Fouchet S., Harrand J. — C. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 185~187[英]

96221640

与单模光纤有高耦合效率的量子阱电子转换波导=Quantum well electron transfer waveguide with high coupling efficiency to single-mode fiber/Khan M. N., Zucker J. E., Chang T. Y. *et al.* // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 194~196[英]

96221641

波导型光频梳齿发生器=A waveguide-type optical-frequency comb generator/Saitoh T., Kourogi M., Ohtsu M. // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 197~199[英]

96221642

用于退火质子交换波导器件的长寿命设计=Long lifetime projections for annealed proton-exchanged waveguide devices/Lewis D. K., Kissa K. M., Suchoski P. G. // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 200~202[英]

96221643

低于居里温度下通过Ni扩散制备LiTaO₃光波导=Fabrication of LiTaO₃ optical waveguides by Ni diffusion below the Curie temperature/Chen W. — L., Chen D. — J., Wang W. — S. // *IEEE Photon Technol Lett* — 1995, 7, No. 2 — 203~205[英]

96221644

比较双平面波导电极用于Ti:LiNbO₃干涉量度的调制=Comparison of two coplanar waveguide electrodes for Ti:LiNbO₃ interferometric modulators/Zhu Ning Hua, Wang Zi Qian // *Opt. & Q. E.* — 1995, 27, No. 6 — 607~616[英]

96221645

采用直接调制的光学网络中相位感生强度噪声的顺序关系=Sequence dependence of phase-induced intensity noise in optical networks that employ direct modulation/Tur M., Legg P. J., Shabeer M. *et al.* // *Opt. Lett.* — 1995, 20, No. 4 — 359~361[英]

96221646

用电子俘获材料的光电子神经树形网络处理=Optoelectronic neural dendritic tree processing with electron-trapping materials/Wen Z., Baek A., Farhat N. H. // *Opt. Lett.* — 1995, 20, No. 6 — 614~616[英]

96221647

交叉互连的平面光学结构=Planar optical configurations for crossover interconnects/Song S. H., Lee E. H. // *Opt. Lett.* — 1995, 20, No. 6 — 617~619[英]

96221648

单一热成象的形状再现=Shape reconstruction from a single thermal image/Barker E., Maldague X., Laurendeau D. // *Optical Engineering* — 1995, 34, No. 1 — 154~159[英]

96221649

开发利用激光束分析大规模集成电路故障法=レーザービームによる新しいLSI故障解析法を開発 // *O plus E* — 1995, No. 190 — 58~58[日]

96221650

开发用激光调整磁带录像机磁头的技术=レーザーによるVTR磁気ヘッドの位置調整技術を開発 // *O plus E* — 1995, No. 191 — 53~54[日]

96221651

用表面二次谐波法研究Si(111) $7 \times 7 \rightleftharpoons 1 \times 1$ 相变瞬态响应=

Si(111)7×7 $\leftrightarrow$ "1×1"相转移过渡应答的表面 SHG 法による研究/青野正和 *et al.* // レーザー 科学研究 - 1995, No. 17 - 83 ~ 85 [日]

96221652

用表面二次谐波法研究高温 Si(111) 表面的氧化初始过程 = 高温 Si(111) 表面における酸化初期過程の表面 SHG 法による研究/Shklyayev A. A., 鈴木隆則 // レーザー 科学研究 - 1995, No. 17 - 86 ~ 88 [日]

96221653

装置间光互连技术的发展动向 = 装置间光インタコネクトの技術动向/高井厚志 // レーザー 研究 - 1995, 23, No. 8 - 648 ~ 656 [日]

96221654

构造操作性能优异的光回路计算机辅助设计系统 = 操作性に優れた光回路 CAD システムの構築/法月真澄, 后藤正见, 中岛启机 // レーザー 研究 - 1995, 23, No. 9 - 779 ~ 787 [日]

3-6 全息照相、图象信息处理

96221655

模压彩虹全息片的单色性及其测试方法 = The monochromaticity if embossed rainbow hologram and its measurement method/哈流柱, 张勇 // 光电子·激光 - 1995, 6, No. 4 - 216 ~ 218 [中]

96221656

超大面积重铬酸盐明胶版反射式全息图 = Super large scales reflection hologram on dechromated gelatin/章鹤龄, 任永禄, 张光勇 // 光电子·激光 - 1995, 6, No. 4 - 219 ~ 221 [中]

96221657

三维真彩色彩虹全息研究 = The study of 3D true-color rainbow holography/袁自钧 // 光电子·激光 - 1995, 6, No. 4 - 225 ~ 227 [中]

96221658

线性相关计算法形成数字剪切散斑相关条纹图 = Digital shearing speckle correlation fringes pattern formed by using linear correlation calculating method/何玉明 // 光子学报 - 1995, 24, No. 1 - 13 ~ 17 [中]

96221659

体积相位全息光栅的设计及制备 = The design and fabrication of volume holographic grating/梁国栋, 徐迈, 邹景惠 // 光子学报 - 1995, 24, No. 1 - 43 ~ 47 [中]

96221660

二维数字图象处理中的非线性滤波技术 = Nonlinear filtering for 2-D digital image processing/高峰 // 光子学报 - 1995, 24, No. 1 - 48 ~ 56 [中]

96221661

模压全息技术的某些新进展 = 熊乘衡 // 激光与光电子学进展 - 1995, No. 11 - 1 ~ 4 [中]

96221662

全息底片实时自动处理装置 = Real time autometa processing instrurnents of hologram negative/漆新明, 余拱信, 周鞠宁 // 激光杂志 - 1995, 16, No. 4 - 148 ~ 150 [中]

96221663

全息照片木纹噪声的产生与抑制 = Generation of the wooden fringe noise of hologram and prevention/张文碧, 杨齐民, 钟丽云 *et al.* // 激光杂志 - 1995, 16, No. 4 - 151 ~ 153 [中]

96221664

圆光栅的高精度高质量莫尔条纹信号的研究 = Study of moire fringe signals with high accuracy and superior quality in radial gratings/朱应时, 杨进堂 // 计量学报 - 1995, 16, No. 4 - 280 ~ 285 [中]

96221665

360°视场圆柱面彩虹全息图的记录与再现 = Recording and reconstructing for cylindrical rainbow hologram of 360°/张坤明 // 物理 - 1995, 24, No. 4 - 240 ~ 242 [中]

96221666

X 射线全息术 = X-ray holography/陈建文, 徐至展, 朱佩平 *et al.* // 物理学进展 - 1995, 15, No. 2 - 125 ~ 147 [中]

96221667

随机遥测系统多参量信息注入、表示和相干-光学处理用的专用声光信息处理机 = Специализированный акустооптический процессор ввода, представления и когерентно-оптической обработки многопараметрической информации бортовых телеметрических систем/Быковский Ю. А., Елюев Э. Н., Кухаренко К. Л. *et al.* // Кван, электр. - 1995, 22, No. 10 - 964 ~ 970 [俄]

96221668

频率反馈声光系统中的多重稳定性 = Мультистабильность в акустооптической системе с обратной связью по частоте/Балакшин В. И., Казарьян А. В., Ли А. А. // Кван, электр. - 1995, 22, No. 10 - 975 ~ 979 [俄]

96221669

在多维逻辑原理基础上实现多参量信息处理光电系统的方法 = Методика реализации оптикоэлектронных схем многопараметрической обработки сигналов на основе принципов мн гозначной логики/Арестова М. Л., Быковский А. Ю. // Кван, электр. - 1995, 22, No. 10 - 980 ~ 984 [俄]

96221669

混合显微系统型光电信息处理器 = Оптикоэлектронный процессор в виде гибридной микросхемы/Елтихив Н. Н., Есепкина Н. А., Долгий В. А. *et al.* // Кван, электр. - 1995, 22, No. 10 - 985 ~ 990 [俄]

96221671

带扫描 CCD 光电接收系统的光电信息处理器 = Оптикоэлектронные процессоры со сканирующ ми ПЗС-фотоприемниками/Есепкина Н. А., Лавров А. П., Анянцев А. Н. *et al.* // Кван, электр. - 1995, 22, No. 10 - 991 ~ 996 [俄]

96221672

用半导体激光器做的电信号傅里叶信息处理器 = Фурье-процессоры электрических сигналов на полупроводниковых лазерах/Блок А. С., Бухенский А. Ф., Крупицкий Э. И. *et al.* // Кван, электр. - 1995, 22, No. 10 - 997 ~ 1000 [俄]

96221673

数字信息光电矩阵-矢量信息处理器的精确参量分析 = Анализ точностных параметров оптико-электронного матрично-векторного процессора обработки цифровой информации/Одиновков С. Б., Петров А. В. // Кван, электр. - 1995, 22, No. 10 - 1001 ~ 1008 [俄]

96221674

用光学层析法再现矢量物理场 = Восстановление векторных физических полей оптическим томографическим методом/Кульчин Ю. Н., Вытрик О. Б., Каменев О. Т. *et al.* // Кван, электр. - 1995, 22, No. 10 - 1009 ~ 1012 [俄]

96221675

光纤传感器中应用再现计算层析法 = Применение методов реконструктивной вычислительной томографии в волоконно-оптических датчиках/Тиневский С. П., Котон О. И., Каменев О. Т. *et al.* // Кван, электр. - 1995, 22, No. 10 - 1013 ~ 1018 [俄]

96221676

具有嵌入辅助通道的循环式光纤存储回路 = Циркуляционный волоконно-оптический контур памяти со встроенным служебным каналом/Пилипович В. А., Есман А. К., Гончаренко И. А. *et al.* // Кван, электр. - 1995, 22, No. 10 - 1019 ~ 1022 [俄]

96221677

以双通道同轴波导为基础的物理场变换器 = Преобразователи физических полей на основе двухканальных коаксиальных световодов/Бусурич В. И., Бражникова Т. Ю., Коробков В. В. *et al.* // Кван, электр. - 1995, 22, No. 10 - 1023 ~ 1026 [俄]

96221678

数字信息函数处理装置用的波导光电子学元件 = Элементы волноводной оптикоэлектроники для устройств функциональной обработки цифровой информации/Гладкий В. П., Никитин В. А., Прохоров В. П. *et al.* // Кван, электр. - 1995, 22, No. 10 - 1027 ~ 1033 [俄]

96221679

用图像的光谱编码沿光纤直接传递图像 = Прямая передача изображения по оптическому волокну с использованием спектрального кодирования изображения/Бобринев В. И., Сон Дж. Я., Чох Х. В. // Кван, электр. - 1995, 22, No. 10 - 1034 ~ 1036 [俄]