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目次

· 综述 ·

二维非线性光限幅材料研究进展 董宁宁, 刘强虎, 王俊 1300001

· 激光器件与激光物理 ·

基于薄膜铌酸锂光波导的平坦光频率梳的设计 刘宇, 邓宜, 卫航, 等 1301001

高平均功率腔倒空纳秒薄片激光器 戴隆辉, 刘锐, 公发全, 等 1301002

1064 nm 侧向微结构宽脊波导半导体激光器 齐军, 邹永刚, 范杰, 等 1301003

基于 a 切 $\text{Er, Yb: YAl}_3(\text{BO}_3)_4$ 晶体被动调 Q 微片激光器 查松青, 陈雨金, 邓鸣瑶, 等 1301004

侧面抽运(T_m, Ho): YLF 晶体传导冷却百纳秒脉冲激光器 蔡宇航, 张俊旋, 陈晓, 等 1301005

双管级联薄管激光放大器环域像差自补偿方法 李佳, 田博宇, 余江川, 等 1301006

· 材料与薄膜 ·

碳杂质对 $p\text{-GaN}$ 电阻率的补偿作用研究 吴昕宁, 刘昭阳, 刘明佳, 等 1303001

· 测量与计量 ·

动目标空间位置精度测量系统设计 杨亮, 张宁 1304001

顾及随机误差的地面三维激光扫描仪自检校模型及其抗差解法 周腾飞, 程效军, 黄凯, 等 1304002

基于离散外极曲线模型的水下多线结构光双目测量方法 解则晓, 邵玮婧, 高翔, 等 1304003

激光阴影法探测大气湍流中二维风矢量的可行性 沈刘晶, 梅海平, 任益充, 等 1304004

· 光束传输与控制 ·

基于特殊形貌光源的衍射效应对空心光场的调控研究 林兴磊, 吕金光, 陈东林, 等 1305001

紧凑型压电式高性能快反镜结构设计 周子夜, 冯忠毅, 黄林海, 等 1305002

· 光纤光学与光通信 ·

实时修正零差对称算法解调 DFB 光纤激光水听器 汪云云, 黄俊斌, 丁朋, 等 1306001

雨雾共存天气 $1.55 \mu\text{m}$ 波长激光动态传输特性 俞任姣, 李振华, 束建成, 等 1306002

基于光纤布拉格光栅阵列的铝合金疲劳裂纹预测方法 孙玲玉, 刘长超, 姜明顺, 等 1306003

· 生物医学光子学与激光医学 ·

基于时域迭代小波变换的单分子定位图像背景去噪 吴天琦, 肖文, 李仁剑, 等 1307001

· 非线性光学 ·

饱和非线性介质中艾里光束与孤子的交互作用 王涛, 廉城, 王连锴, 等 1308001

· 遥感与传感器 ·

基于光子计数激光雷达的运动小目标测距测速系统(封面论文) 刘芳华, 贺岩, 罗远, 等 1310001

· 微纳光学 ·

微透镜阵列结构膜提高 CsPbBr_3 量子点薄膜发光效率及其稳定性 陈长锋, 郑懿, 方朝龙 1313001

· 快报 ·

同带泵浦的万瓦级三包层掺镱光纤 张磊, 楼风光, 王孟, 等 1315001

高效率单通倍频实现 610 W 连续波单模绿光输出 苏梦琪, 尤阳, 全昭, 等 1315002

全保偏掺铒光纤皮秒脉冲及高效率倍频技术研究 杨占军, 郝强, 汤成, 等 1315003

封面解读

封面主要呈现了光子计数激光雷达的工作原理。安装在跟踪平台上的光子计数激光雷达可实现对远距离高速非合作运动目标的高精度测距和测速。采用单光子探测器的激光雷达能够探测单个光子, 具有极高的探测灵敏度。在其激光回波点云中, 大量的噪声光子在时域上呈随机分布, 而目标的回波光子具有一定的连续性和关联性, 通过多次激光回波累加或者相关算法处理点云数据可以提取出目标的运动轨迹, 从而获得动目标的距离和速度信息。

Chinese Journal of Lasers

Vol. 48, No. 13 (Series No. 541) July 10, 2021

CONTENTS

· Reviews ·

Research Progress of Two-Dimensional Nonlinear Optical Limiting Materials Dong Ningning, Liu Qianghu, Wang Jun 1300001

· Laser Devices and Laser Physics ·

Design of Flat Optical Frequency Comb Based on Lithium Niobate Optical Waveguide Liu Yu, Deng Yi, Wei Hang, et al. 1301001

Cavity-Dumped Nanosecond Thin-Disk Laser with High Average Power Dai Longhui, Liu Rui, Gong Faquan, et al. 1301002

1064 nm Wide-Ridge Waveguide Semiconductor Laser with Lateral Microstructure Qi Jun, Zou Yonggang, Fan Jie, et al. 1301003

Passively Q-Switched α -Cut Er, Yb : $\text{YAl}_3(\text{BO}_3)_4$ Microchip Laser Zha Songqing, Chen Yujin, Deng Mingyao, et al. 1301004

Side-Pumped, Conductively Cooled (Tm, Ho) : YLF Pulsed Laser with More than One-Hundred-Nanosecond Pulse Width
..... Cai Yuhang, Zhang Junxuan, Chen Xiao, et al. 1301005

Method for Self-Correction of Annular Off-Axis Aberrations in Two-Stage Tube Laser Amplifiers
..... Li Jia, Tian Boyu, Yu Jiangchuan, et al. 1301006

· Materials and Thin Films ·

Compensation Effect of Carbon Impurities on the Resistivity of p-GaN Wu Xinning, Liu Zhaoyang, Liu Mingjia, et al. 1303001

· Measurement and Metrology ·

Measurement System Design of Spatial Position Accuracy of Dynamic Targets Yang Liang, Zhang Ning 1304001

Self-Calibration Model of Terrestrial Three-Dimensional Laser Scanners Considering Random Errors and Robust Estimation Solution
..... Zhou Tengfei, Cheng Xiaojun, Huang Kai, et al. 1304002

Underwater Multiple Line-Structured Light Binocular Measuring Method Based on Discrete Epipolar Curve Model
..... Xie Zexiao, Shao Weijing, Gao Xiang, et al. 1304003

Feasibility of Laser Shadow Method to Detect Two-Dimensional Wind Vector in Atmospheric Turbulence
..... Shen Liuqing, Mei Haiping, Ren Yichong, et al. 1304004

· Beam Transmission and Control ·

Modulation of Hollow Light Field by Diffraction Effect Based on Special Shape Light Source
..... Lin Xinglei, Lü Jinguang, Chen Donglin, et al. 1305001

Structure Design of Compact Piezoelectric Fast Steering Mirror with High Performance
..... Zhou Ziye, Feng Zhongyi, Huang Linhai, et al. 1305002

· Fiber Optics and Optical Communications ·

Real-Time Correction Homodyne Symmetry Algorithm to Demodulate DFB Fiber Laser Hydrophone
..... Wang Yunyun, Huang Junbin, Ding Peng, et al. 1306001

Dynamic Propagation Characteristics of 1.55- μm Wavelength Laser in Rain and Fog Coexisting Weather
..... Yu Renjiao, Li Zhenhua, Lai Jiancheng, et al. 1306002

Fatigue Crack Prediction Method for Aluminum Alloy Based on Fiber Bragg Grating Array
..... Sun Lingyu, Liu Changchao, Jiang Mingshun, et al. 1306003

· Biomedical Photonics and Laser Medicine ·

Single-Molecule Localization Image Background Denoising Based on Time-Domain Iterative Wavelet Transform
..... Wu Tianqi, Xiao Wen, Li Renjian, et al. 1307001

· Nonlinear Optics ·

Interaction of Airy Beams and Soliton in Saturable Nonlinear Medium Wang Tao, Lian Cheng, Wang Liankai, et al. 1308001

· Remote Sensing and Sensor ·

Moving Target Distance and Velocity Measurement System Based on Photo-Counting Lidar(Cover Paper)
..... Liu Fanghua, He Yan, Luo Yuan, et al. 1310001

· Micro and Nano Optics ·

Improvement of Luminescence Efficiency and Stability of CsPbBr_2 Quantum Dot Films with Microlens Array Structure
..... Chen Changfeng, Zheng Yi, Fang Chaolong, et al. 1313001

· Letters ·

Yb-Doped Triple-Clad Fiber for Nearly 10 kW Level Tandem-Pumped Output Zhang Lei, Lou Fengguang, Wang Meng, et al. 1315001

610-W Continuous-Wave Single-Mode Green Laser Output Based on Highly Efficient Single-Pass Frequency Doubling
..... Su Mengqi, You Yang, Quan Zhao, et al. 1315002

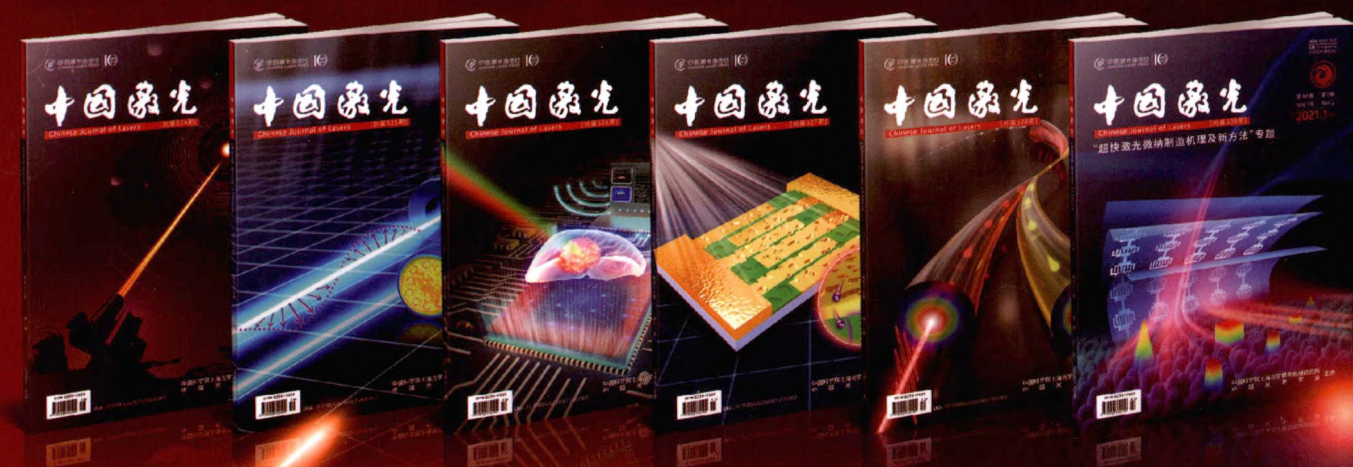
Picosecond Pulse and High Efficiency Frequency Doubling Based on All-Polarization-Maintaining Er-Doped Fibers
..... Yang Zhanjun, Hao Qiang, Tang Cheng, et al. 1315003

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封面故事



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