

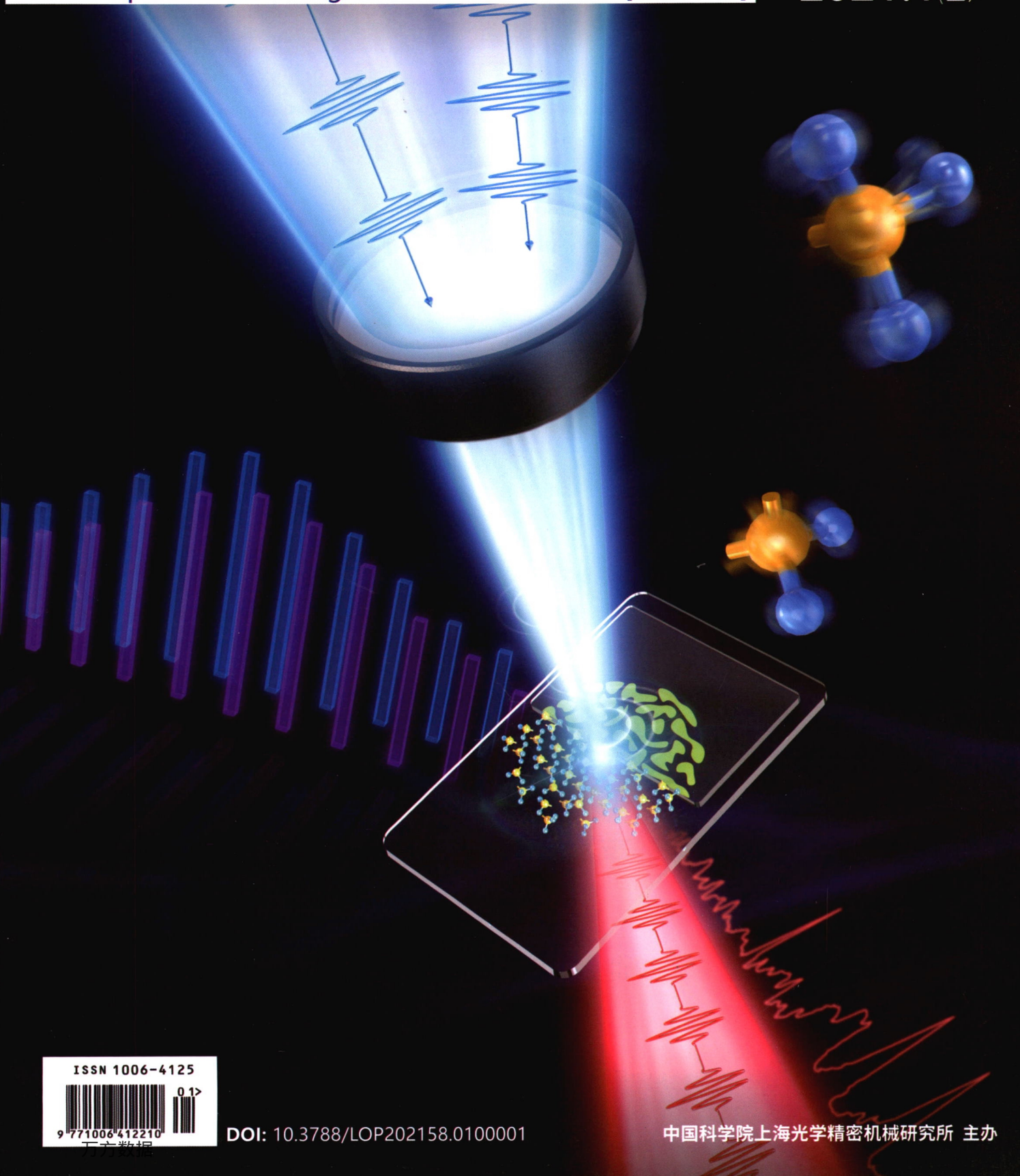
激光与光电子学进展

第 58 卷
第 1 期

Laser & Optoelectronics Progress

[总第684期]

2021.1 (上)



激光与光电子学进展

第 58 卷 第 1 期 2021 年 1 月

(总第 684 期)

目 次

· 综述 ·

- 双光梳非线性光谱(封面文章)..... 卢敏健,武韬,李岩,等 0100001
- 安防激光雷达研究进展 宋召奇,朱精果,解天鹏,等 0100002
- 激光诱导石墨烯技术研究进展 王宗源,胡滨,吴旭东 0100003
- 脉冲激光沉积微粒控制技术的研究进展 代守军,余锦,翁泽强,等 0100004
- 太赫兹光谱检测技术对农产品品质检测的研究进展 刘燕德,徐振,胡军,等 0100005
- 基于光学滤波器的扫频光纤激光器研究进展 游关红,彭万敬,邹辉 0100006
- 金属材料的激光增材制造微观组织结构特征及其影响因素 李时春,莫彬,肖昱,等 0100007

· 大气光学与海洋光学 ·

- 点阵列声源激发大气湍流特性对光波传输闪烁指数特性的影响研究 王文静,王明军 0101001
- 基于 Málaga 湍流信道和 Nakagami 衰弱信道的选择合并混合 FSO/RF 系统的性能分析 ... 吴琰,戴聪明,赵凤美,等 0101002

· 衍射与光栅 ·

- 基于达曼光栅耦合的光纤阵列能量传输系统 余日银,李德洪,陈东文,等 0105001

· 光纤光学与光通信 ·

- 基于光纤布拉格光栅的准分布式高温监测系统 司晓龙,吴林坊,庄岩,等 0106001
- 基于小发散角 LED 的光源优化布局 赵太飞,马壮,李星善 0106002
- 基于双边带干涉的预泵浦布里渊光时域分析系统 秦莉,王澜澜,梁浩,等 0106003

· 几何光学 ·

- 一种产生涡旋光束的勾型阵列超表面结构设计 罗蒙 0108001
- 大相对孔径长焦距同轴折反射式望远物镜设计 沈志娟,曹一青 0108002

· 仪器,测量与计量 ·

- 高反镜表面疵病尺寸对激光散射场分布的影响 江坤,高爱华,闫丽荣 0112001
- 基于太赫兹时域谱分析的常见包裹物屏蔽下食品药品检测方法 曹思达,于勇,宋长波,等 0112002
- 基于环形透镜的非索干涉仪环形光源设计 陈秋白,张齐元,王艳,等 0112003
- 基于线激光在机测量的一面两孔特征寻位方法 周晏锋,陈蔚芳,曹新航,等 0112004
- 线结构光条纹中心提取方法 胡杨,方素平 0112005

· 激光器与激光光学 ·

- TC4表面原位合成TiC增强钛基复合激光熔覆层的组织及摩擦学性能 张宏伟,张顶立,张天刚,等 0114001
- 不同粒径粉末搭配对激光选区熔化IN738合金成形件表面粗糙度及内部缺陷的影响 胡勇,杨小康,康文江,等 0114003
- 578.5 nm端面泵浦被动调Q拉曼黄光激光器 赵辉,王浩宇,朱思祁,等 0114004
- 用于消除激光雷达点云图像弯曲的算法研究 许本有,章旭,杨盈莹 0114005
- 选区激光熔化316L不锈钢成形工艺与性能研究 姚燕生,唐建平,汪俊,等 0114006
- 用于飞秒激光绝对距离测量的法布里-珀罗标准具的设计与实现 许艳 0114007
- 万瓦级光纤连接器参数设计及热效应数值模拟 章曦,李平雪,董雪岩,等 0114009

· 医用光学与生物技术 ·

- 基于SERS光谱技术的滑膜型关节炎研究 董弦虎,汤淑珍,陈孙裕,等 0117001
- 光学相干断层扫描视网膜图像的迁移学习分类 连超铭,钟舜聪,张添福,等 0117002

· 光学设计与制造 ·

- 迈克耳孙干涉仪中的动镜倾斜分析和仿真 冯明春,徐亮,王玉杰 0122001

· 光学器件 ·

- 低成本二维激光扫描投影技术 程进,周顺,徐乃涛,等 0123001
- 任意偏振光保偏的声光衍射效率增强系统的研究 毕然,陈力荣,李晋鹏,等 0123002

· 物理光学 ·

- 基于永磁体离心量对磁悬浮热解石墨片光驱转动现象的研究 童鑫,唐锋,李建郎 0126001

· 量子光学 ·

- 外磁场下Dzyaloshinskii-Moriya相互作用对海森堡XYZ链热纠缠的影响 罗丹丹,慕琦雄,黄燕霞 0127001
- 量子控制非门核磁共振实现最优脉冲序列 彭永刚 0127002

· 光谱学 ·

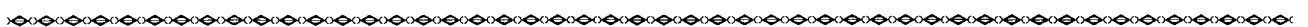
- 小样本太赫兹光谱识别 崔向伟,沈韬,刘英莉,等 0130001
- 基于PLS-DA拉曼光谱特征提取的中性笔油墨MLP模式识别 王晓宾,马泉,杨蕾,等 0130002

· 视觉,颜色与视觉光学 ·

- 基于非RAW数据的数码反射显微镜色度特征化 徐鹏,张克奇,章海军,等 0133001

· 其他光学领域 ·

- 一种星敏感器导航星筛选算法 王海涌,徐皓 0135001



本刊电子版彩色效果请详见中国光学期刊网 www.opticsjournal.net

CONTENTS

Reviews

- Dual-Comb Nonlinear Spectroscopy(**Cover Paper**)*Lu Minjian, Wu Tao, Li Yan, et al.* 0100001
- Research Progress on Security LiDAR*Song Zhaoqi, Zhu Jingguo, Xie Tianpeng, et al.* 0100002
- Research Progress of Laser-Induced Graphene Technology*Wang Zongyuan, Hu Bin, Wu Xudong* 0100003
- Particulate Control Technology Based on Pulsed Laser Deposition*Dai Shoujun, Yu Jin, Mo Zeqiang, et al.* 0100004
- Research on Quality of Agricultural Products by Terahertz Spectroscopy*Liu Yande, Xu Zhen, Hu Jun, et al.* 0100005
- Research Progress of Frequency-Swept Fiber Lasers Based on Optical Filter
.....*You Guan hong, Peng Wan jing, Zou Hui* 0100006
- Microstructure Characteristics and Their Influence Factors During Laser Additive Manufacturing of Metal Materials
.....*Li Shichun, Mo Bin, Xiao Gang, et al.* 0100007

Atmospheric Optics and Oceanic Optics

- Effect of Point-Array Coherent Sound Source on Scintillation Index of Light Wave in
Atmospheric Turbulence Transmission*Wang Wenjing, Wang Mingjun* 0101001
- Performance Analysis of Selection Combining Hybrid FSO/RF System over Málaga Turbulence Channel
and Nakagami Fading Channel*Wu Yan, Dai Congming, Zhao Fengmei, et al.* 0101002

Diffraction and Gratings

- Fiber Array Energy Transmission System Based on Damman Grating Coupling
.....*She Riyin, Li Dehong, Chen Dongwen, et al.* 0105001

Fiber Optics and Optical Communications

- Quasi-Distributed High-Temperature Monitoring System Based on Fiber Bragg Grating
.....*Si Xiaolong, Wu Linfang, Zhuang Yan, et al.* 0106001
- Optimal Layout of Light Source Based on LED with Small Divergence Angle
.....*Zhao Taifei, Ma Zhuang, Li Xingshan* 0106002
- Pre-Pump Brillouin Optical Time Domain Analysis System Based on Double-Sideband Interference
.....*Qin Li, Wang Lanlan, Liang Hao, et al.* 0106003

Geometric Optics

- Design of Hook-Typed Metasurface for Vortex Beams Generation*Luo Meng* 0108001
- Design of a Coaxial Catadioptric Telescope Objective with a Large Relative Aperture and Long Focal Length
.....*Shen Zhijuan, Cao Yiqing* 0108002

Instrumentation, Measurement and Metrology

- Influence of Surface Defect Size of High-Reflection Mirror on Laser Scattering Field Distribution
.....*Jiang Kun, Gao Aihua, Yan Lirong* 0112001
- Method of Food and Drug Detection Under Shielding of Common Wrappings Based on
Terahertz Time Domain Spectroscopy.....*Cao Enda, Yu Yong, Song Changbo, et al.* 0112002
- Design of Ring Source for Fizeau Interferometer Based on Annular Lens
.....*Chen Qiubai, Zhang Qiuyan, Wang Yan, et al.* 0112003
- One-Plane Two-Hole Feature Positioning Method Based on Line Laser On-Machine Measurement
.....*Zhou Yanfeng, Chen Weifang, Cao Xinhang, et al.* 0112004
- Extraction Method of Light Stripe Center of Linear Structure.....*Hu Yang, Fang Suping* 0112005

Lasers and Laser Optics

- Microstructure and Tribological Properties of *In Situ* TiC-Reinforced Ti-Based Composite Coating by
Laser Cladding on TC4 Surface.....*Zhang Hongwei, Zhang Dingli, Zhang Tiangang, et al.* 0114001

Effects of Combination of Powders with Different Particle Sizes on Surface Roughness and Internal Defects of IN738 Alloy Formed by Selective Laser Melting	<i>Hu Yong, Yang Xiaokang, Kang Wenjiang, et al.</i>	0114003
578.5 nm End-Pumped Passively Q-switched Raman Yellow Laser	<i>Zhao Hui, Wang Haoyu, Zhu Siqi, et al.</i>	0114004
Research on Algorithm for Eliminating Bending of Lidar Point Cloud Image	<i>Xu Benyou, Zhang Xu, Yang Yingying</i>	0114005
Forming Technology and Properties of 316L Stainless Steel by Selective Laser Melting	<i>Yao Yansheng, Tang Jianping, Wang Jun, et al.</i>	0114006
Design and Realization of Fabry-Perot Etalon for Absolute Distance Measurement of Femtosecond Pulse Laser	<i>Xu Yan</i>	0114007
Parameter Design and Thermal Effect Numerical Simulation of 10 kW Fiber Connector	<i>Zhang Xi, Li Pingxue, Dong Xueyan, et al.</i>	0114009
Medical Optics and Biotechnology		
Study on Synovial Arthritis Based on Surface-Enhanced Raman Scattering Spectroscopy	<i>Dong Xianhu, Tang Shuzhen, Chen Sunyu, et al.</i>	0117001
Transfer Learning-Based Classification of Optical Coherence Tomography Retinal Images	<i>Lian Chaoming, Zhong Shuncong, Zhang Tianfu, et al.</i>	0117002
Optical Design and Fabrication		
Analysis and Simulation of Moving Mirror Tilt in Michelson Interferometer	<i>Feng Mingchun, Xu Liang, Wang Yujie</i>	0122001
Optical Devices		
Low-Cost Two-Dimensional Laser Scanning Projection Technology	<i>Cheng Jin, Zhou Shun, Xu Naitao, et al.</i>	0123001
Acousto-Optic Diffraction Efficiency Enhancement System for Polarization Maintaining of Arbitrarily Polarized Light	<i>Bi Ran, Chen Lirong, Li Jinpeng, et al.</i>	0123002
Physical Optics		
Optical Drive Rotation of Magnetically Levitating Pyrolytic Graphite Disk Based on Eccentricity of Permanent Magnets	<i>Tong Xin, Tang Feng, Li Jianlang</i>	0126001
Quantum Optics		
Effect of Dzyaloshinskii-Moriya Interaction on Thermal Entanglement of Heisenberg XYZ Chains Under External Magnetic Field	<i>Luo Dandan, Mu Qixiong, Huang Yanxia</i>	0127001
Optimal Pulse Sequence of Quantum Controlled Not-Gates via Nuclear Magnetic Resonance Realization	<i>Peng Yonggang</i>	0127002
Spectroscopy		
Recognition of Small-Sample Terahertz Spectrum	<i>Cui Xiangwei, Shen Tao, Liu Yingli, et al.</i>	0130001
Multi-Layer Perceptron Pattern Recognition of Handwriting Ink Based on PLS-DA Raman Spectral Feature Extraction	<i>Wang Xiaobin, Ma Xiao, Yang Lei, et al.</i>	0130002
Vision, Color, and Visual Optics		
Colorimetric Characterization of Digital Reflection Microscope Based on Non-RAW Data	<i>Xu Peng, Zhang Keqi, Zhang Haijun, et al.</i>	0133001
Other Areas of Optics		
Algorithm for Screening Navigation Stars on Star Sensors	<i>Wang Haiyong, Xu Hao</i>	0135001

激光与光电子学进展

Laser & Optoelectronics Progress

封面文章

2020年



万方数据