

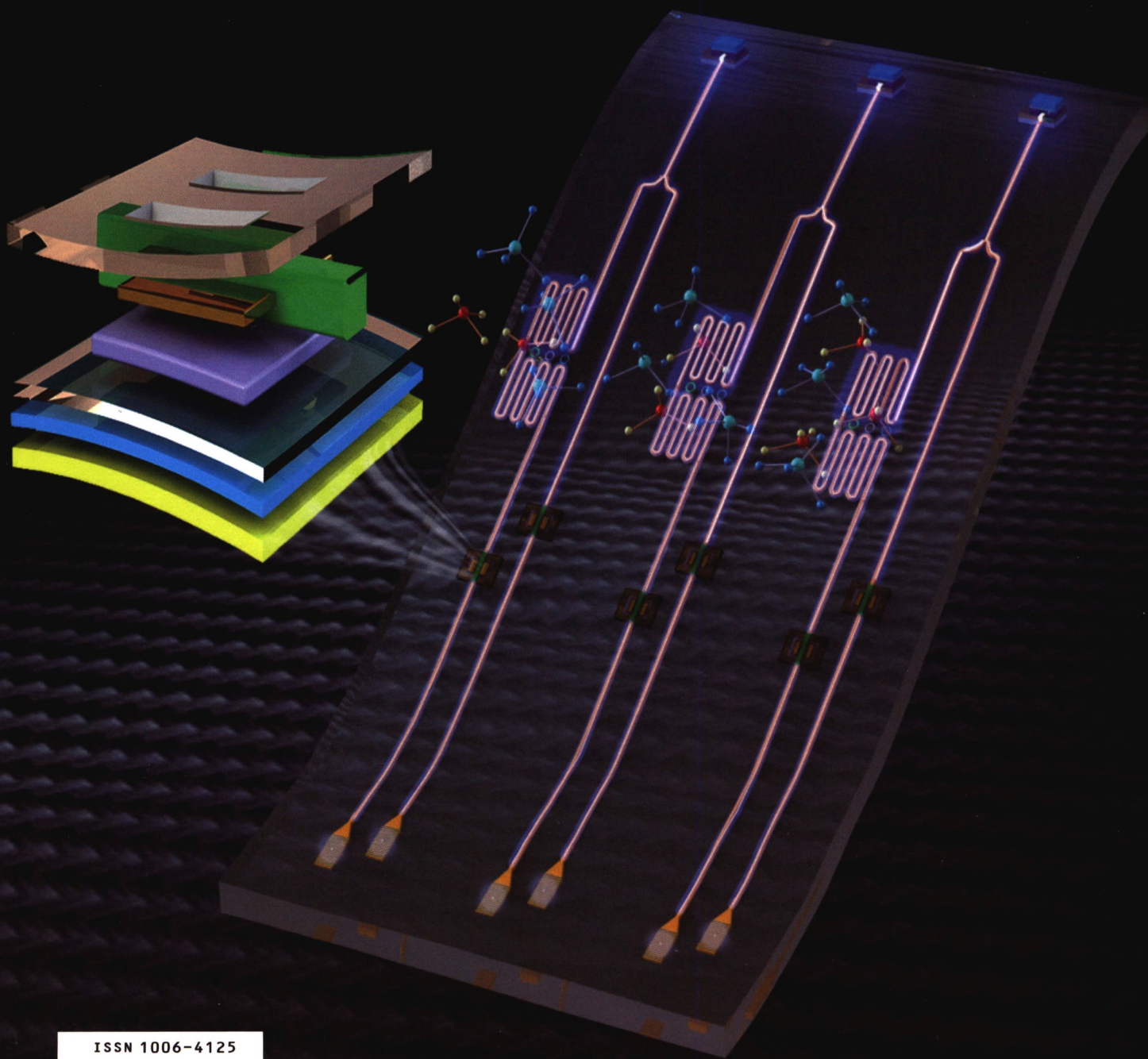
激光与光电子学进展

第 57 卷
第 3 期

Laser & Optoelectronics Progress

[总第662期]

2020.2(上)



ISSN 1006-4125



9 771006 412203



万方数据

激光与光电子学进展

第 57 卷 第 3 期 2020 年 2 月

(总第 662 期)

目 次

· 综述 ·

柔性光子材料与器件的研究进展(封面文章,特邀综述) 叶羽婷,马辉,孙春雷,等 030001

基于内标法的表面增强拉曼散射定量分析 邢豪健,尹增鹤,张洁,等 030002

激光破岩技术影响因素的研究进展 官兵,李士斌,张立刚,等 030003

· 大气光学与海洋光学 ·

基于卫星偏振遥感的细粒子气溶胶光学厚度反演 高迦南,李丽萍,崔廷伟,等 030101

基于 3D 特征点的激光雷达与立体视觉配准方法 陈少杰,朱振才,张永合,等 030102

基于 Sahu-Shanmugam 和 Fournier-Forand 体积散射函数的水下激光传输特性分析
..... 李天松,高翔,周晓燕,等 030103

· 原子与分子物理学 ·

阈上电离谱与双色激光场频率的关系 金发成,杨慧慧,张桐,等 030201

铯原子激发态 $6D_{5/2}$ 的超精细能级分裂结构测量 王志宏,张锦芳,曾昭卿,等 030202

· 衍射与光栅 ·

级联液晶偏振光栅的衍射特性分析 王丽娜,李明秋,王春阳,等 030501

光束会聚型亚波长光栅 1×4 功率分束器 黄诚,白成林,房文敬,等 030502

· 傅里叶光学与信号处理 ·

基于改进最小二乘法的火炮跳角测量方法 姜曼,王军,杜博军,等 030701

· 几何光学 ·

基于混合粒子群算法的相位差波前探测技术 熊文尚,王继红 030801

· 仪器,测量与计量 ·

基于相位偏折的类镜面物体表面缺陷检测 姜硕,杨凌辉,任永杰,等 031201

多波长显微干涉的光强一致性控制方法 程中生,黄娇洁,赵杭,等 031202

中医正骨仿真训练系统中噪声数据的处理方法 仇大伟,曹慧,刘静 031203

· 激光器与激光光学 ·

Inconel 718 覆层工艺用于 K418 叶片激光再制造立体成形 徐杰,周金宇,任维彬,等 031401

激光熔覆制备 316L 涂层组织及腐蚀行为研究	刘朋, 陈志凯, 金全明, 等	031402
激光熔覆镍/锡基巴氏合金的显微组织及力学性能分析	许桐舟, 张陈, 孙长青, 等	031403
选区激光熔化技术制备 GH4169 合金的致密度研究	张国会, 郭绍庆, 黄帅, 等	031404
四频差动激光陀螺差分偏振损耗研究	党敏, 于文东, 胡强, 等	031405
激光深熔焊接 X65 油气管线钢焊缝的成形机理及性能分析	江国业, 刘宇平, 雷璞, 等	031406
强度扰动对双频激光相干探测性能的影响	任建迎, 孙华燕, 赵延仲, 等	031407

· 材料 ·

偏振无关高吸收效率宽吸收带宽超材料吸收器	王超素, 江达飞, 江孝伟	031601
----------------------------	---------------	--------

· 医用光学与生物技术 ·

基于舌象色谱比较分析的舌诊方法	尚文文, 王亚伟, 薛双双, 等	031701
-----------------------	------------------	--------

· 光计算 ·

基于光场成像的三点式光笔测量方法	于之靖, 郑建文, 陶永奎, 等	032001
------------------------	------------------	--------

· 光学设计与制造 ·

磁流变抛光流场瞬变过程响应时间	杨航, 宋书飘, 张帅, 等	032201
基于无掩模光刻的高精度 ITO 电极湿法刻蚀工艺研究	殷艺, 刘志坚, 王赛杰, 等	032202
基于光纤照明技术的光纤端头灯的设计与实现	陈嘉鸿, 单孝忍, 丁攀峰	032204

· 光学器件 ·

基于光电振荡器结合电选频腔产生线性调频信号	刘莉, 于晋龙, 王菊, 等	032301
-----------------------------	----------------	--------

· 光电子学 ·

离子束抛光等量去除的实现及抛光实验	王玉宁, 蒋世磊, 孙国斌, 等	032501
-------------------------	------------------	--------

· 散射 ·

空间离轴反射式 CCD 相机杂散光抑制	李可, 王媛媛, 常君磊, 等	032902
---------------------------	-----------------	--------

· 光谱学 ·

基于改进迭代多项式拟合的红外光谱基线校正方法	宁志强, 刘家祥, 吴越, 等	033001
------------------------------	-----------------	--------

· 薄膜 ·

TiO ₂ 薄膜表面粗糙度与散射特性研究	刘金泽, 潘永强, 张达, 等	033101
---------------------------------------	-----------------	--------

· 其他光学领域 ·

区域太阳高度角平均偏差的统计特征规律	张行清, 庞芳, 卢伟萍, 等	033501
--------------------------	-----------------	--------



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

Laser & Optoelectronics Progress

Vol.57, No.3 (Series No.662) February 2020

CONTENTS

• Reviews •

Research Progress on Flexible Photonic Materials and Devices(Cover Paper, Invited)

..... *Ye Yuting, Ma Hui, Sun Chunlei, et al.* 030001

Quantitative Analysis of Surface-Enhanced Raman Scattering Based on Internal Standard Method

..... *Xing Haojian, Yin Zenghe, Zhang Jie, et al.* 030002

Review on Influencing Factors of Laser Rock Drilling Technology

..... *Guan Bing, Li Shibin, Zhang Ligang, et al.* 030003

• Atmospheric Optics and Oceanic Optics •

Retrieval of Fine Mode Aerosol Optical Depth Based on Satellite Polarization Remote Sensing

..... *Gao Jianan, Li Liping, Cui Tingwei, et al.* 030101

Extrinsic Calibration for Lidar and Stereo Vision Using 3D Feature Points

..... *Chen Shaojie, Zhu Zhencai, Zhang Yonghe, et al.* 030102

Characteristic Analysis of Underwater Laser Propagation Based on Sahu-Shanmugam and Fournier-Forand Volume Scattering Functions

..... *Li Tiansong, Gao Xiang, Zhou Xiaoyan, et al.* 030103

• Atomic and Molecular Physics •

Dependence of Above-Threshold Ionization Spectra on Frequencies of Two-Color Laser Fields

..... *Jin Facheng, Yang Huihui, Zhang Tong, et al.* 030201

Hyperfine Energy Level Splitting Structure Measurement of the Excited State $6D_{5/2}$ for Cesium Atom

..... *Wang Zhihong, Zhang Jinfang, Zeng Zhaoqing, et al.* 030202

• Diffraction and Gratings •

Diffraction Characteristics Analysis of Cascaded Liquid Crystal Polarization Gratings

..... *Wang Li'na, Li Mingqiu, Wang Chunyang, et al.* 030501

Sub-Wavelength Grating 1×4 Power Splitter with Beam Convergence

..... *Huang Cheng, Bai Chenglin, Fang Wenjing, et al.* 030502

• Fourier Optics and Signal Processing •

Measurement Method of Gun's Jump Angle Based on Improved Least-Squares

..... *Jiang Man, Wang Jun, Du Bojun, et al.* 030701

• Geometric Optics •

Phase Diversity Wavefront Detection Technique Based on Hybrid Particle Swarm Algorithm

..... *Xiong Wenshang, Wang Jihong* 030801

• Instrumentation, Measurement and Metrology •

Defect Detection in Mirror-Like Object Surface Based on Phase Deflection

..... *Jiang Shuo, Yang Linghui, Ren Yongjie, et al.* 031201

Intensity Consistency Control Method for Multi-Wavelength Micro-Interferometry

..... *Zhai Zhongsheng, Huang Jiaojie, Zhao Hang, et al.* 031202

Noise Data Processing Methods in Simulation and Training System of Bone-Setting Manipulations in Traditional Chinese Medicine

..... *Qiu Dawei, Cao Hui, Liu Jing* 031203

• Lasers and Laser Optics •

Inconel 718 Coating Process for Laser Remanufacturing Three-Dimensional Forming of K418 Blades



..... *Xu Jie, Zhou Jinyu, Ren Weibin, et al.* 031401

Microstructure and Corrosion Behaviors of 316L Coating Fabricated by Laser Cladding

..... *Liu Peng, Chen Zhikai, Jin Quanming, et al.* 031402

Analysis of Micromorphology and Mechanical Properties of Laser Cladding Nickel/Tin-Based Babbitt Alloy	<i>Xu Tongzhou, Zhang Chen, Sun Changqing, et al.</i>	031403
Relative Density of GH4169 Superalloy Prepared by Selective Laser Melting	<i>Zhang Guohui, Guo Shaoqing, Huang Shuai, et al.</i>	031404
Reducing Differential Polarization Loss in Four-Frequency Differential Laser Gyroscope	<i>Dang Min, Yu Wendong, Hu qiang, et al.</i>	031405
Forming Mechanism and Performance Analysis of X65 Oil and Gas Steel Pipeline Weld Fabricated by Laser Deep-Penetration Welding	<i>Jiang Guoye, Liu Yuping, Lei Pu, et al.</i>	031406
Effect of Intensity Disturbance on Performance of Dual-Frequency Laser Coherent Detection	<i>Ren Jianying, Sun Huayan, Zhao Yanzhong, et al.</i>	031407
• Materials •		
Polarization Independent High Absorption Efficiency Wide Absorption Bandwidth Metamaterial Absorber	<i>Wang Chaosu, Jiang Dafei, Jiang Xiaowei</i>	031601
• Medical Optics and Biotechnology •		
Tongue Diagnosis Method Based on Comparative Analysis of Tongue Image Chromatography	<i>Shang Wenwen, Wang Yawei, Xue Shuangshuang, et al.</i>	031701
• Optics in Computing •		
Three-Point Light Pen Measurement Method Based on Light Field Imaging	<i>Yu Zhijing, Zheng Jianwen, Tao Yongkui, et al.</i>	032001
• Optical Design and Fabrication •		
Response Time of Flow Transient Process of Magnetorheological Finishing	<i>Yang Hang, Song Shupiao, Zhang Shuai, et al.</i>	032201
High-Precision ITO Electrode Wet Etching Technology Based on Maskless Lithography	<i>Yin Yi, Liu Zhijian, Wang Saijie, et al.</i>	032202
Design and Realization of Fiber End Lamp Based on Fiber Optic Lighting Technology	<i>Chen Jiahong, Shan Xiaoren, Ding Panfeng</i>	032204
• Optical Devices •		
Linear Frequency-Modulated Signal Generation Based on Optoelectronic Oscillator Combined with Electrical Frequency-Selected Cavity	<i>Liu Li, Yu Jinlong, Wang Ju, et al.</i>	032301
• Optoelectronics •		
Ion Beam Polishing Equivalent Removal and Polishing Experiments	<i>Wang Yuning, Jiang Shilei, Sun Guobin, et al.</i>	032501
• Scattering •		
Stray Light Suppression of Space Off-Axis Reflective CCD Camera	<i>Li Ke, Wang Yuanyuan, Chang Junlei, et al.</i>	032901
• Spectroscopy •		
Infrared Spectrum Baseline Correction Method Based on Improved Iterative Polynomial Fitting	<i>Ning Zhiqiang, Liu Jiexiang, Wu Yue, et al.</i>	033001
• Thin Films •		
Surface Roughness and Scattering Characteristics of TiO ₂ Thin Film	<i>Liu Jinze, Pan Yongqiang, Zhang Da, et al.</i>	033101
• Other Areas of Optics •		
Statistical Characteristic Law of Average Deviation of Solar Elevation in Different Regions	<i>Zhang Xingqing, Pang Fang, Lu Weiping, et al.</i>	033501

CIOP2020

 27 - 30 July 2020  Beijing, China

CALL FOR PAPERS

GENERAL CHAIRS



Guofan Jin
Tsinghua University, China



James Harris
Stanford University, USA

TECHNICAL PROGRAM CHAIRS



Xi-Cheng Zhang
University of Rochester, USA



Chao Lu
The Hong Kong Polytechnic
University, China



Zhiyi Wei
Institute of Physics, CAS, China

TOPICS

- SC1 Light-Matter Interactions
- SC2 Plasmonics and Metamaterials
- SC3 Ultrafast and Nonlinear Phenomena
- SC4 Solid State, Fiber, and Other Laser Sources
- SC5 Silicon Photonics
- SC6 Microwave Photonics
- SC7 Micro and Nanophotonics
- SC8 Optical Materials
- SC9 Optical Measurement and Metrology
- SC10 Infrared and Terahertz Technologies
- SC11 Optical Imaging, Display, and Storage
- SC12 Optical Communications and Networks
- SC13 Optical Fiber and Waveguide Technologies
- SC14 Biophotonics and Optofluidics
- SC15 Optical Sensors and Systems
- SC16 Atomic Physics, Quantum Photonics,
and Quantum Information

HOST



CONTACT US

ciop@siom.ac.cn 86-21-69918426

TECHNICAL COSPONSOR

SPIE.

SCAN
TO VIEW
CONFERENCE WEBSITE.
www.ciop.com.cn

