

目次

激光应用技术

- 基于双窗全相位 FFT 的激光多普勒频率提取与校正方法 王彦林 石云波 康 强等(1395)
- 层状二硫化钼纳米薄膜的制备、表征及其超快特性研究 孔春霞 季晓炜 戴 瑞等(1402)
- 激光诱导击穿光谱结合 GA-BP-ANN 检测炉渣中 Ca 马翠红 马云望(1408)
- 由粗到精的机载点云建筑物屋面分割 舒 敏 刘 科(1414)

激光器技术

- 紧凑型高峰值功率高光束质量百皮秒激光器技术 冯国旭 黄来玉 秘国江等(1421)
- 相变直冷高功率光纤激光器 刘 岩 朱 辰 张利明等(1425)
- 三波长自由切换激光系统 赵志刚 谢安宁 王德飞等(1431)

红外技术及应用

- 空间目标温度与红外特性影响因素研究 李 享 李劲东 孙鹤枝等(1436)
- 640 × 512 15 μm 杜瓦真空失效的极限真空度研究 王 冠 孟令伟 张冬亮等(1442)
- 基于 GPS 的红外成像测向交叉定位方法 岳 娟 高思莉 李范鸣等(1447)

光纤及光通讯技术

- 非对称双芯光子晶体光纤的温度传感特性研究 曾维友 王晴岚 徐 利等(1455)

光电对抗

- 多激光制导目标时激光角度欺骗干扰问题研究 罗 威 杨华兵 戴定川等(1461)

光学技术

- 单检偏器数字散斑干涉偏振相移方法 李 露 董明利 李伟仙等(1467)
- 双截止透可见带通滤光片研制 齐 健 苏宙平 胡立发等(1472)

图像与信号处理

- 周视IRST系统运动目标检测算法的硬件实现 黄成章 李 哲(1478)
- 基于 U-NET 网络的消防红外图像的人体检测算法 张 骏 范 彬 杨新军(1483)
- 随机工件的点云场景 CAD 模型的快速识别与定位 赵 刚 郭晓康 刘德政等(1490)

《激光与红外》2019 年总目次

LASER & INFRARED

(Monthly, Publication Started in 1971)

Vol. 49 No. 12

(Series No. 495)

December 2019

JOINT JOURNAL of
China Optics & Opto-Electronics

Manufactures Association

Laser & Infrared Technology Information

Exchange Organization, CEI

Quantum Electronics & Opto-
Electronics Society, CIE

CONTENTS

Laser Application Technology

- (1395) Frequency extraction and correction based on double-window all-phase FFT of laser Doppler WANG Yan-lin *et al*
- (1402) Preparation, characterization and ultrafast properties of layered molybdenum disulfide nano-films KONG Chun-xia *et al*
- (1408) Laser induced breakdown spectroscopy combined with GA-BP-ANN for detection of Ca in slag MA Cui-hong *et al*
- (1414) Building roof planes segmentation of airborne LiDAR by using coarse-to-fine method SHU Min *et al*

Laser Technology

- (1421) Compact high peak power and high beam quality laser with hundreds picoseconds pulse width FENG Guo-xu *et al*
- (1425) Phase change direct cooling high power fiber laser LIU Yan *et al*
- (1431) Three-wavelength free switchable laser system ZHAO Zhi-gang *et al*

Infrared Technology & Application

- (1436) Influencing factors of temperature and infrared characteristics of space target LI Xiang *et al*
- (1442) Study on the limit vacuum degree of $640 \times 512 \text{ } 15\mu\text{m}$ Dewar vacuum failure WANG Guan *et al*
- (1447) GPS-based infrared imaging direction finding cross-location YUE Juan *et al*

Optical Fiber & Optical Communication

- (1455) Research on temperature sensing properties of asymmetric dual-core photonic crystal fiber ZENG Wei-you *et al*

O – E Countermeasure

- (1461) Research of laser angle deception jamming to multi-targets of laser guidance LUO Wei *et al*

Optical Technology

- (1467) A single-polarization-analyzer-based polarization phase-shifting method in digital speckle pattern interferometry LI Lu *et al*
- (1472) Fabrication of dual-band cut-off for visible bandpass filter QI Jian *et al*

Image & Signal Processing

- (1478) Implementation of moving target detection algorithms inIRST system HUANG Cheng-zhang *et al*
- (1483) Human detection algorithms based on U-NET network for fire fighting infrared images ZHANG Jun *et al*
- (1490) Rapid identification and positioning system of point cloud scene CAD model of random work-pieces ZHAO Gang *et al*

Annual Cumulative Contents of LASER & INFRARED 2019