

目次

综述与评论

- 激光驾束制导弹药发展现状及在俄乌冲突中的应用 赵志刚, 刘虎, 尚乾等(1747)
- 基于 Warping Harness 的半主动光学技术发展研究 张奔雷, 杨飞, 王富国(1752)

激光应用技术

- 基于主成分分析的激光麦克风的语音信号提取 孙学明, 张大华, 周志全等(1761)
- 飞秒激光刻蚀石英工艺研究 何魁魁, 周广福, 戴玉堂(1768)
- 圆筒网涂层激光清除的扫描覆盖模型研究 李红军, 石雅婷, 张弛等(1774)
- S α S 分布噪声模型下激光信号互相关时延估计 李丰君, 徐广平, 耿林等(1781)
- 基于量子多元宇宙算法的磁光成像增强 卢慧(1787)
- DBSCAN 聚类改进算法与支持向量机结合的道路路锥识别研究 王兆权, 陈天炎, 王水发等(1796)

激光器技术

- 基于周期性极化钽酸锂晶体的连续激光倍频技术研究 张利飞, 谢典昆, 陈昊等(1804)
- 低阈值高稳定性的全保偏锁模光纤激光器 徐隽灏, 王天枢, 马万卓(1810)

红外技术及应用

- 近红外空间碎片激光测距光束准直性标校方法 郑谣, 范存波, 董雪等(1815)
- 热障涂层脱粘缺陷脉冲压缩激光红外热成像检测 毛丰晶, 王荣邦, 陈振伟等(1820)
- 光学窗口透过光谱对特征目标红外成像探测效能影响仿真研究 屈长虹, 伊伟伟, 李芬等(1827)

红外材料及器件

- 基于多层 MIM 结构超材料的耐高温波长选择性宽带红外隐身特性研究 邹景岚, 梁广, 朱志宏(1836)
- 中/长波双色二类超晶格红外探测器技术 刘铭, 邢伟荣, 刘京生等(1843)

光电技术与系统

- 机载光电随动伺服系统稳速性能与动态特性优化 任元斌, 王惠林, 杜言鲁等(1848)

光纤传感及光通讯技术

- 基于光纤传感的自动化装配轨迹校正系统设计 王春霞, 刘云朋, 张利(1858)

光电对抗

- 激光捷联导引头线性区扩展方法研究 胡绍云, 周国家, 鲁强等(1863)

图像及信号处理

- 基于卷积融合字典的电路板红外图像去噪研究 王力, 张亦弛, 郝建新(1867)
- 基于图像处理的激光指向误差修正技术方法研究 洪莺, 姚红权, 胡芳仁等(1876)
- 激光模拟射击高精度命中环数算法研究 周鹏, 李长楨, 郑毅等(1882)

《激光与红外》2022 年总目次

LASER & INFRARED

(Monthly, Publication Started in 1971)

Vol. 52 No. 12

(Series No. 531)

December 2022

JOINT JOURNAL of

China Optics & Opto-Electronics

Manufactures Association

Laser & Infrared Technology Information

Exchange Organization, CEI

Quantum Electronics & Opto-

Electronics Society, CIE

CONTENTS

Overview & Comment

- (1747) Development status of laser beam riding guidance munitions and its application in Russia-Ukraine conflict ZHAO Zhi-gang *et al*
(1752) Research on the development of semi-active optical technology based on Warping Harness ZHANG Ben-lei *et al*

Laser Application Technology

- (1761) Voice signal extraction of laser microphone based on PCA SUN Xue-ming *et al*
(1768) Study on femtosecond laser etching of quartz HE Kui-kui *et al*
(1774) Scanning coverage model study of laser removal of cylindrical mesh coating LI Hong-jun *et al*
(1781) Time delay estimation of laser signal cross correlation based on S_QS distributed noise model LI Feng-jun *et al*
(1787) Magneto-optic imaging enhancement based on quantum multiverse algorithm LU Hui
(1796) Research on road cone recognition based on improved DBSCAN clustering algorithm and support vector machines classification WANG Zhao-quan *et al*

Laser Technology

- (1804) Research on continuous laser frequency doubling technology based on periodically polarized lithium tantalate crystal ZHANG Li-fei *et al*
(1810) Low threshold and high stability all polarization-maintaining mode-locked fiber laser XU Jun-hao *et al*

Infrared Technology & Application

- (1815) Calibration method for beam collimation of near-infrared space debris laser ranging ZHENG Yao *et al*
(1820) Detection of debonding defects of thermal barrier coatings by pulsed compression laser infrared thermal imaging MAO Feng-jing *et al*
(1827) Simulation study of the influence of transmission spectrum of optical window on the detection efficiency of characteristic target infrared imaging QU Chang-hong *et al*

Infrared Material & Device

- (1836) Research on high-temperature resistant wavelength-selective broadband infrared stealth characteristics based on multi-layer MIM structure metamaterials ZOU Jing-lan *et al*
(1843) Mid-wave and long-wave dual-colour type-II superlattice infrared detector technology LIU Ming *et al*

O - E Technology & System

- (1848) Optimization of rate stability and dynamic characteristics of airborne photoelectric servo system REN Yuan-bin *et al*

Optical Fiber Sensing & Optical Communication

- (1858) Design of an automatic assembly trajectory correction system based on optical fiber sensing WANG Chun-xia *et al*

O - E Countermeasure

- (1863) Study on linear region extension of laser strap-down seeker HU Shao-yun *et al*

Image & Signal Processing

- (1867) Convolutional fusion dictionary-based denoising of infrared images of circuit boards WANG Li *et al*
(1876) Research on laser pointing correction technology based on image processing HONG Ying *et al*
(1882) Research on the algorithm of high-precision hit rings for laser simulation shooting ZHOU Peng *et al*