Published Online May 2024 in Hans (https://www.hanspub.org/journal/jsta)

TABLE OF CONTENTS

目 录

Based on LoRa Smart Greenhouse 陶为戈、王水星、肖椒艳、殷媛、马建东、赖慈美	基于 LoRa 智意温至天棚的彻联网综合实训教字平台设计 Design of IoT Comprehensive Training and Teaching Platform	
714CDP 气象雷达发射机引起的回波偏弱分析与研究 Analysis and Research on Echo Weakness Caused by 714CDP Weather Radar Transmitter		
Analysis and Research on Echo Weakness Caused by 714CDP Weather Radar Transmitter 董正洪,郑迎宾	陶为戈,王永星,肖淑艳,殷媛,马建东,赖慧美	251
多内部调制参数相关的 CCD 高温计测量能力评估理论及实验验证 Theoretical and Experimental Validation of CCD Pyrometer Measurement Capability Assessment with Multiple Internal Modulation Parameter Correlation 顾晟羽,于千淞,董渊	Analysis and Research on Echo Weakness Caused by 714CDP Weather	
Theoretical and Experimental Validation of CCD Pyrometer Measurement Capability Assessment with Multiple Internal Modulation Parameter Correlation 顾晟羽,于千淞,董渊	董正洪,郑迎宾	261
粗糙度对高温目标红外辐射偏振特性的影响研究 A Study of the Effect of Roughness on the Polarization Characteristics of Infrared Radiation from a High-Temperature Objective 高嘉乐	Theoretical and Experimental Validation of CCD Pyrometer Measurement Capability Assessment with Multiple Internal Modulation Parameter Correlation	269
Intelligent Adjustment Method of Home Lighting Environment Based on Fuzzy PID Control 徐劲,孙健,李科岐	粗糙度对高温目标红外辐射偏振特性的影响研究 A Study of the Effect of Roughness on the Polarization Characteristics of Infrared Radiation from a High-Temperature Objective	
New Cylindrical Trash Can Based on Raspberry PI and YOLOv5 叶弘宇,侯丽新	Intelligent Adjustment Method of Home Lighting Environment Based on Fuzzy PID Control	298
Study of an Automated Static Leveling Test Device for Settlement Monitoring 金鹏,刘枫,马洪亮,齐冀龙	New Cylindrical Trash Can Based on Raspberry Pl and YOLOv5	310
Study of the GMI Effect on Thin Strips of Fe-Based Alloys and the Core Filling Factor of Drive Coils 赵梓翔,李金贵,何佳俊,杨灿,苗艳龙,翟耀,方允樟	Study of an Automated Static Leveling Test Device for Settlement Monitoring	316
基于 3D 视觉的汽车轮胎胎面花纹缺陷检测系统	Fe 基合金薄带 GMI 效应与驱动线圈磁芯填充系数的研究 Study of the GMI Effect on Thin Strips of Fe-Based Alloys and the Core Filling Factor of Drive Coils	
	赵梓翔,李金贵,何佳俊,杨灿,苗艳龙,翟耀,方允樟	323
Set the desir		

Published Online May 2024 in Hans (https://www.hanspub.org/journal/jsta)

辅热对纳杪脉冲激光作用铝合金蒸气反冲压的影响研究 The Study on the Influence of Auxiliary Heating on the Recoil Pressure of Aluminum	
Alloy Vapor Induced by Nanosecond Pulsed Laser 张雪	3/11
基于锥形光纤的马赫 - 曾德尔干涉传感器用于温度和折射率同时测量 Mach-Zehnder Interferometer Sensor Based on Tapered Fiber for Simultaneous Measurement of Temperature and Refractive Index 王一帆	
高温目标偏振特性数值仿真研究 Numerical Simulation Study of Polarization Characteristics of High-Temperature Targets	
相云峰	
基于改进麻雀搜索算法优化 LSTM 网络的城市轨道交通短时客流预测 Optimization of Short-Term Passenger Flow Forecast Based on Improved Sparrow Search Algorithm in LSTM Network 陈俊杰,颜树成,王昌友	380
基于 ANSYS 的称重传感器弹性体结构参数优化 Optimization of Elastomer Structure Parameters of Load Cell Based on ANSYS	
王鑫,陶为戈基于云模型的风力机发电因素重要性评估 Importance Evaluation of Wind Turbine Power Generation Factors Based on Cloud Model	
张琪琪,王昌友基于混合滤波算法的三维力传感器信号处理 Three-Dimensional Force Sensor Signal Processing Based on Hybrid Filtering Algorithm	399
王亚飞,朱永国,万远,王鑫,卓鑫,白增柱	409
高灵敏面阵红外相机实测图像盲元检测与补偿方法 Blind Element Detection and Compensation Method for High Sensitivity Area Array Infrared Camera Tested Images	
李翔宇,陈捷,张亚勋	420
基于 STM32 的纳米线光电扫描成像系统研制 Development of Nanowire Photoelectric Scanning Imaging System Based on STM32 邓天霞、刘凯依、黄国现、草镇谦、苏检德、蒙雪、李燕玲、何聪颖、黄宫城、宋树祥、刘林生	40.5
20.大臂,知己似,电时似,早月7世,办位德、麦等,学挑货,但贴到,再是70. 未树体,从林生	430

Published Online May 2024 in Hans (https://www.hanspub.org/journal/jsta)

基于混合神经网络的混沌噪声背景下微弱脉冲信号的检测 Detection of Weak Pulse Signals in the Background of Chaotic Noise Based on Hybrid Neural Networks	
, 沈心雨,吕林黛,汪欣	439
针对线性调频雷达密集假目标干扰技术研究 Research on Jamming Technology for Dense False Targets in Linear Frequency Modulation Radar 全文超,王远航	448
基于多传感器的空情信息融合技术	
Air-Information Fusion Technology Based on Multi-Sensor	
仝文超,杨妍冰	456
基于多模光纤光栅光谱中拐点的温度传感研究 Study on Temperature Sensing Based on the Turning Point in a Multimode Fiber Grating Spectrum	
杨强龙,陶海岩,徐亚萌	463
背照式 CMOS 图像传感器像素结构影响分析 Analysis for the Influence of Pixel Structure in Backside Illuminated CMOS Image Sensor 王玮	471
基于第一性原理研究 Rh 掺杂 SnO ₂ (110)表面对 CO 的气敏吸附 Sensing Mechanism of Rh Doped SnO ₂ (110) Surface for CO 贾晓敏	480
Ce 掺杂的 In₂O₃ 立方体的制备及气敏性能研究 Study on the Preparation and Gas-Sensing Performance of Ce-Doped In₂O₃ Cubes 马克凡	486
不同形貌 MoO3 气体传感器的制备及对丙酮的气敏性能研究 Preparation of MoO3 Gas Sensors with Different Morphologies and Study on Gas Sensitivity to Acetone	
曹欢欢	495
损耗模式共振光学传感器的发展与应用 Development and Application of Lossy Mode Resonance Optical Sensors	
仝文超,张玉洁,张一卓	504
基于纳米银 SERS 防伪图案防伪标签研究 Research on Anti-Counterfeiting Label Based on Nano-Silver SERS Anti-Counterfeiting Pattern	
蒙雪,黄国现,何聪颖,苏检德,刘凯依,邓天霞,黄富城,李燕玲,宋树祥,刘林生	521