

# TABLE OF CONTENTS

## 目 录

基于改进的 YOLOv5 的带式磨削表面缺陷检测

**Surface Defect Detection of Belt Grinding Based on Improved YOLOv5**

赵霆霆, 周骅, 赵麒.....4247

基于行人头部保护的汽车发动机罩系统优化设计

**Optimization Design of Vehicle Hood System Based on Pedestrian Head Protection**

吕俞祥, 李家俊, 张健, 姜万里, 王霄.....4257

双隧道开挖有限元模拟

**Finite Element Simulation of Twin Tunnel Excavation**

李灵杰, 倪鹏飞, 侯锡康.....4269

基于响应面法的塑料微压力容器吹塑成型壁厚优化

**Optimization of Wall Thickness for Blow Molding of Plastic Micro Pressure Containers Based on Response Surface**

张保山, 刘淑梅, 曹熹.....4276

大数据背景下基于相似性原理、ISM 模型的社区安全风险研究

**Research on Community Security Risk Based on Similarity Principle and ISM Model under the Background of Big Data**

李文杰.....4285

350MW 燃煤锅炉在富氧下掺烧生物质气的数值模拟

**Numerical Simulation of Biomass Gas Blending in 350MW Coal-Fired Boiler under Oxygen Enrichment**

曹广懿德, 陈帅, 胡超.....4294

智慧城市建设与高耗能企业碳减排绩效: 内在机制与经验证据

**Smart City Construction and Carbon Emission Reduction Performance of Energy-Consuming Enterprises: Intrinsic Mechanisms and Empirical Evidence**

薛永善, 贾晓霞.....4305

基于卷积神经网络的乳腺癌病理图像分类

**Classification of Breast Cancer Pathological Images Based on Convolutional Neural Network**

蔡豪杰, 王林, 王义兵, 侍鹏.....4320

微型山坡地形对风电场性能的影响研究

**Study of the Effect of Micro-Hillside Topography on Wind Farm Performance**

杨号, 陈建.....4332

<p><b>电子口碑对二手服装正念消费行为的影响调查</b>  <b>The Influence Research of eWOM on Mindful Consumption Behavior of Second-Hand Clothes</b></p>	
姜越, 姜苑, 孙斯琦, 高洁.....	4342
<p><b>基于 PV-BUS 结构的最小功率点跟踪研究</b>  <b>Research on Least Power Point Tracking Based on PV-BUS Structure</b></p>	
卞佳龙, 阚加荣, 陈鹤鸣, 徐苏东, 李炎, 陈威威.....	4355
<p><b>基于 SmartRock 监测与离散元仿真分析的沥青混合料压密行为研究</b>  <b>Research on Compaction Behavior of Asphalt Mixture Based on SmartRock Monitoring and Discrete Element Simulation Analysis</b></p>	
刘天运.....	4365
<p><b>基于双目立体视觉的电解阴极铜板三维重建研究</b>  <b>Research on 3D Reconstruction of Electrolytic Cathode Copper Plate Based on Binocular Stereo Vision</b></p>	
王诗杰, 鄢和平, 袁嫣红.....	4379
<p><b>基于 LC 谐振变换器串联锂电池组控制策略研究</b>  <b>Research on Control Strategies Based on LC Resonant Converter for Series-Connected Battery Strings</b></p>	
陈威威, 吴云亚, 陈鹤鸣, 周斌, 刘志鹏, 徐苏东.....	4393
<p><b>基于半桥 LLC 具有电流限制的电池均衡器</b>  <b>Half-Bridge LLC-Based Battery Equalizer with Current Limit</b></p>	
李炎, 阚加荣, 陈鹤鸣, 刘志鹏, 徐苏东, 周斌.....	4402
<p><b>基于 FPGA 和 Sinc 插值的分数阶傅里叶变换建模与设计</b>  <b>Modeling and Design of Fractional Fourier Transform Based on FPGA and Sinc Interpolation</b></p>	
李尚恒, 丁召, 周骅.....	4415
<p><b>基于 3D ERA U-Net 的 MRI 海马体分割</b>  <b>MRI Hippocampus Segmentation Based on 3D ERA U-Net</b></p>	
沈菲, 华云松, 陈聪茏.....	4425
<p><b>基于希尔伯特变换的三频三步相移结构光三维重建方法</b>  <b>Three-Frequency Three-Step Phase-Shift Structured Light 3D Reconstruction Method Based on Hilbert Transform</b></p>	
郑晓美, 王勇青, 杜国红, 殷少帅.....	4437
<p><b>基于 PSR 模型的成都市土地生态安全评价</b>  <b>Evaluation of Land Ecological Security in Chengdu Based on PSR Model</b></p>	
陈涛, 陈施越, 樊玉茹.....	4449
<p><b>基于随机配置网络的服装分类方法</b>  <b>Clothing Classification Method Based on Stochastic Configuration Networks</b></p>	
胡明豪, 黄海.....	4458

**基于光储系统的三端口变换器研究**

**Research on Three-Port Converter Based on Optical Storage System**

孙薪, 吴云亚, 姜玉霞.....4467

**基于 HYSYS 的 LNG 冷能利用方案设计与优化**

**Design and Optimization of LNG Cold Energy Utilization Scheme Based on HYSYS**

汪自钊.....4480

**基于 ANSYS 的系列铜管夹具优化设计**

**Optimization Design of Series Copper Pipe Fixture Based on ANSYS**

张银龙, 袁嫣红, 刘晨, 陈天杰, 李正军.....4488

**基于 1D-CNN 的含 DG 中压馈线合环电流预测方法**

**Loop Closing Current Prediction Method of Medium Voltage Feeder with DG Based on 1D-CNN**

陈世威, 荣娜, 罗勇, 邹文斌.....4499

**基于标识压缩的 Petri 网可达状态研究**

**Research on Reachability of Petri Nets Based on Identifier Compression**

赵杰民.....4515

**离合器外圈钻孔专用机床的设计与研究**

**Design and Research of a Special Machine Tool for Drilling the Outer Ring of a Clutch**

刘晨, 袁嫣红, 张银龙, 甄小军, 陈天杰.....4525

**基于 ANSYS 燃气轮机排气引射器优化设计**

**Optimization Design of Gas Turbine Exhaust Ejector Based on ANSYS**

尹思杰, 温华兵, 童宗鹏.....4537

**翅片式旋流管数学模型的建立与程序化实现**

**Establishment of Mathematical Model and Programmatic Implementation of Finned Cyclone Tube**

卢进军, 李继新, 陈克新, 曹海宇, 徐洪斌, 乔梦华.....4549

**两种典型粘弹性流体——Giesekus 流体与 FENE-P 流体的流变特性**

**The Rheological Properties of Two Typical Viscoelastic Fluids—Giesekus Fluid and FENE-P Fluid**

沈洋, 王企鲲, 刘唐京.....4559

**纸滤芯的流体流动与纸折变形的数字化仿真研究**

**Digital Simulation Analysis of Fluid Flow and Paper Folding Deformation in Paper Filter Element**

卢进军, 李继新, 陈克新, 曹海宇, 徐洪斌, 乔梦华.....4570

**基于线性二次型调节器与比例积分微分控制的步态轨迹跟踪研究与优化**

**Research and Optimization of Gait Trajectory Tracking Based on Linear Quadratic Regulator and Proportional-Integral-Derivative Control**

汪航, 邹任玲, 王佳庆, 张书扬, 关晨露, 胡秀枋, 李丹, 尹学志.....4577

混凝土中氯离子扩散的二维分数阶数值分析

**Numerical Analysis on the Two-Dimensional Fractional Diffusion Model of Chloride Ion in Concrete**

蒋韬, 侍爱玲, 白羽.....4588

基于 KFCM 与多特征融合的皮肤镜病变区域提取

**Extraction of Dermoscopic Lesions Based on KFCM and Multi-Feature Fusion**

栗碧悦, 侯俊, 王子硕, 薛渊, 摆惟圆.....4595

辐射下加热腔内自然对流传热特性研究

**Characterization of Natural Convection Heat Transfer in a Heated Cavity under Radiation**

葛忠义, 周瑞睿.....4605

多尺度融合编码与自注意力的肺部 CT 分割算法

**Lung CT Image Segmentation Algorithm with Multi-Scale Fusion Encoder and Self-Attention**

彭佑菊, 徐杨, 蒋诗怡, 熊举举.....4616

直播带货营销话术对消费者行为倾向影响机制研究

**Research on the Influence Mechanism of Taobao Live Streaming Marketing Discourse on Consumer Behavior Tendency**

龚晓彤, 金玉兰.....4631

面向盲人避障的单目深度估计方法

**A Monocular Depth Estimation Method for Blind Obstacle Avoidance**

杨双, 张荣芬, 刘宇红, 刘源, 程娜娜, 刘昕斐.....4642

基于改进 YOLOv5 的辣椒目标检测算法研究

**Research on Chili Target Detection Algorithm Based on Improved YOLOv5**

王启锟, 王旭.....4654

考虑出租车排队优先级的机场出租车上车点数量优化研究

**Research on Optimization of Airport Taxi Pick-Up Points Considering Taxi Queue Priority**

陈燕婷, 刘保银.....4663

基于动态聚类算法的情绪对模拟驾驶仿真视觉关注度影响研究

**A Study on the Effect of Emotion on Visual Attention in Driving Simulation Based on Dynamic Clustering Algorithm**

刘通, 王卫星.....4673

基于 COMSOL 辉光放电带电粒子特性模拟分析

**Simulation and Analysis of the Characteristics of Charged Particles in Glow Discharge Based on COMSOL**

冯伟康, 孙宜琴, 黄超.....4684

基于鲸鱼优化算法的 PVR 条件下共享停车供需匹配研究

**Research on Shared Parking Supply-Demand Matching under PVR Conditions Based on Whale Optimization Algorithm**

贾田峰, 何胜学, 章炎, 李瑞康.....4696

<b>表面电极离子阱中五线阱的输运研究</b> <b>Study on Shuttling of Five-Wire Trap in Surface Electrode Ion Trap</b>	
胡天杨, 王旭.....	4707
<b>基于忆阻隐藏超混沌系统的图像加密算法研究</b> <b>Research on Image Encryption Algorithm Based on Memristor Hidden Hyperchaotic System</b>	
聂浩, 陆安江.....	4716
<b>乡村振兴与新型城镇化耦合协同推进机理与路径研究</b> <b>Research on the Mechanism and Path of Coupling and Synergistic Promotion of Rural Revitalization and New Urbanization</b>	
钟夏青, 刘峥.....	4732
<b>企业文化与绿色创新之间的关系</b> <b>The Relationship between Corporate Culture and Green Innovation</b>	
刘纹漫.....	4742
<b>基于 ANSYS 的水稻钵苗移栽机齿轮箱振动分析与优化</b> <b>Vibration Analysis and Optimization of Gear Box of Rice Pot Seedling Transfer Machine Based on ANSYS</b>	
李道玉, 雷贤卿.....	4765
<b>基于多尺度卷积神经网络的图像去雾方法研究</b> <b>Research on Image Defogging Method Based on Multi-Scale Convolutional Neural Network</b>	
汤逸凡, 王媛媛, 王如刚, 周锋, 郭乃宏.....	4778
<b>基于虚拟排队系统的机场分类安检最优通道数量研究</b> <b>Research on the Optimal Number of Lanes for Airport Classification Security Check Based on Virtual Queueing System</b>	
陈燕婷, 李梦琪.....	4788
<b>ARIMAX 多元时间序列模型在国家财政收入预测中的应用</b> <b>Application of ARIMAX Multivariate Time Series Model in State Revenue Forecasting</b>	
陈珊.....	4799
<b>新中式服装感知价值对 Z 世代购买意愿的影响研究</b> <b>Research on the Impact of Perceived Value of New Chinese Clothing on Generation Z's Purchase Intention</b>	
刘芳, 李含伟.....	4812
<b>基于 PI 控制的分段恒流锂电池充电器设计</b> <b>Design of Segmented Constant Current Lithium Battery Charger Based on PI Control</b>	
徐苏东, 袁哲, 阚加荣, 卞佳龙, 周斌, 李炎.....	4824
<b>基于 Fluent 的洗扫车扇形喷嘴的分析与优化</b> <b>Analysis and Optimization of Fan Shaped Nozzles for Washing and Sweeping Vehicles Based on Fluent</b>	
於文杰, 王斌, 蒋刘义, 陈青, 王子超, 丁媛媛.....	4833

**基于深度学习的口罩佩戴识别技术研究**

**Research on Mask Wearing Recognition Technology Based on Deep Learning**

周家慧, 王静媛.....4845

**基于改进的 YOLOv7 和无人机航拍技术的风机叶片缺陷检测**

**Defect Detection of Fan Blades Based on Improved YOLOv7 and Drone Aerial Photography Technology**

范虹宇, 胡兴柳, 马尹琪.....4855

**单张封口条离型纸剥离机理分析和机构设计**

**Design and Test of Stripping Device for Single Sheet Sealing Strip Release Paper Verification**

陈为泽, 张国凤.....4868

**基于移相策略的模块化半桥锂电池均衡器**

**Modular Half-Bridge Lithium-Ion Battery Equalizer Based on Phase-Shift Strategy**

刘志鹏, 吴云亚, 陈鹤鸣, 李炎, 陈威威, 徐苏东.....4882

**支撑物对全钢化真空玻璃的抗冲击性能模拟研究**

**Research on Impact Resistance of Pillars to Fully Tempered Vacuum Glass**

刘亚楠, 胡东方, 李彦兵.....4895