

## TABLE OF CONTENTS

## 目 录

<b>基于 BP 神经网络的横流开式空气源换热塔性能预测</b> <b>Performance Prediction of Cross Flow Open Air Source Temperature Heat Transfer Tower Based on BP Neural Network</b>	
康家伟, 章立新, 高明, 陈永保, 刘静楠, 沈艳, 陈金花.....	1
<b>聚光光热腔式集热器的结构优化</b> <b>Structure Optimization of Concentrating Solar-Thermal Cavity Receiver</b>	
芮明奇, 蔡德程, 关欣, 贺进安.....	10
<b>基于 CFD 不同布局下的高层建筑群风环境模拟</b> <b>Wind Environment Simulation of High-Rise Buildings Based on Layouts of CFD</b>	
张宇佳, 闫铂.....	22
<b>基于目标飞行过程的可视化平台搭建技术研究</b> <b>Research on Construction Technology of Visualization Platform Based on Target Flight Process</b>	
卢小汐, 张三喜, 刘鹏祖, 刘伟.....	30
<b>基于文丘里混合的多孔介质燃烧火焰数值模拟研究</b> <b>Numerical Simulation Study of Incompletely Mixed Gas in Porous Media Combustion Flame Based on Venturi Mixture</b>	
郑林, 廖晓炜, 徐洪涛, 刘峰.....	38
<b>基于 BP 神经网络的压电智能旋翼主动减振仿真分析</b> <b>Simulation Analysis of Active Vibration Reduction of Piezoelectric Intelligent Rotor Based on BP Neural Network</b>	
张丹, 刘世坦, 陈俊豪.....	48
<b>微波加热金属导体的仿真研究</b> <b>Simulation Study on Microwave Heating of Metallic Conductor</b>	
梁少荣, 蔡达健, 陈浩彬, 孙延一, 林建辉.....	58
<b>一种 36 kVA 高频变压器的建模仿真与优化</b> <b>Modeling and Optimization of a 36 kVA High-Frequency Transformer</b>	
时振堂, 李红叶, 王志强, 刘征.....	70
<b>矩形截面通道中颗粒惯性聚集现象的力学成因</b> <b>The Mechanical Causes of Inertial Focus of Particles in Rectangular Section Channel</b>	
邹赫, 王企鲲, 薛壮壮.....	83

<b>微型燃烧器扩展角对氢气/空气预混燃烧特性影响的模拟研究</b> <b>Simulation Study on the Influence of Micro Burner Expansion Angle on Hydrogen/Air Premixed Combustion Characteristics</b>	
王卓, 俞志鹏, 姬鹏, 王波, 刘梦辉, 孙成喜.....	93
<b>基于 STC 单片机的小型直流电机变频调速控制器系统设计</b> <b>Design of Small DC Motor Variable Frequency Speed Controller System Based on STC MCU</b>	
赵书红.....	107
<b>道路病害探地雷达模型试验与 GprMax 正演模拟</b> <b>Model Test of Road Disease Ground Penetrating Radar and Forward Simulation of GprMax</b>	
胥晏, 王鹏.....	114
<b>规划多波次导弹发射</b> <b>Planning in Multi Wave Missile Launching</b>	
王红梅.....	121
<b>不同相变材料蓄热特性及液相分数无量纲准则方程式拟合</b> <b>The Heat Storage Characteristics of Different Phase Change Materials and the Liquid Phase Fraction Dimensionless Criterion Equation Fitting</b>	
郑宇豪, 赵明, 王柯.....	128
<b>蜂窝陶瓷换热器的预热特性</b> <b>Preheating Characteristics of Honeycomb Ceramic Heat Exchanger</b>	
孙成喜, 王波, 王卓, 沈佳飞, 成金东, 王雅亮.....	140
<b>水翼尾缘摆动建模与流体动力特性研究</b> <b>Modeling and Hydrodynamic Characteristics of Flapping Hydrofoil Trailing Edge</b>	
苏桐, 王志鸿, 凌忠建, 张咏鸥.....	150
<b>针对白内障术前囊膜皱缩的新型个性化眼模型</b> <b>A New Personalized Eye Model for Capsular Shrinkage before Cataract Surgery</b>	
陈文静.....	160
<b>相变蓄冷保温箱的模拟仿真与实验</b> <b>Numerical Simulation and Experimental Investigation of Storage Box Using Phase Change Materials</b>	
王莉, 陆威, 翟帅楠.....	168
<b>周期性边界条件下多孔肋片电磁热弹性力学性能分析</b> <b>Analysis of Electromagnetic Thermoelastic Mechanical Properties of Porous Fins under Periodic Boundary Condition</b>	
余斯凡, 李凌.....	178
<b>太阳能光伏热泵研究进展</b> <b>Research Progress of Solar Photovoltaic Heat Pump</b>	
牛擎宇, 宋子晔, 关欣.....	187

**基于新冠肺炎疫情下的防控策略优化**

**Optimization of Prevention and Control Strategies Based on the COVID-19**

陈芷涵, 周攀, 杨境华, 廖小莲.....200

**基于 Unity3D 的鱼类运动行为可视化研究**

**Study on Visual Simulation of Fish Motion Behavioral Response Based on Unity3D**

代丽娜, 黄月群, 董堃, 李文菁, 黄寿琨, 郭倩君.....211

**基于环比增长的销售统计分析**

**Statistical Analysis of Sales Based on Sequential Growth**

李天理, 孟国峰, 刘江, 杨继业.....218