

南京师范大学学报

工程技术版

2020 年 12 月 第 20 卷第 4 期(总第 80 期)

目 录

动力工程及工程热物理

蓄能型太阳能热泵系统中复合材料蓄热过程研究

..... 黄金燕,吴 薇,王晓宇,夏 曼,秦芷萱,廖扬颖,杨 晨(1)

空气源热泵双末端系统冬季供暖性能试验研究 戴春祥,夏 焱,韩 伟,朱益秀(10)

不同压力下层流对冲 C_2H_4 扩散火焰中碳烟生成的数值模拟研究

..... 王生福,席剑飞,顾中铸,蔡 杰(16)

电气工程

模块化多电平直流变压器的傅里叶级数建模与控制器设计

..... 吴兴宇,闵富红,王国宁,王志刚,侯 凯(22)

基于 Kalman 滤波和 LQG 控制的主动悬架系统容错控制研究

..... 王玉蓉,张海龙,王恩荣(30)

计算机科学与技术

基于核相关滤波的 TLD 跟踪算法的研究..... 董春燕,刘 怀,梁秦嘉(37)

基于改进 Mask R-CNN 的交通监控视频车辆检测算法

..... 陆 飞,沈世斌,苏晓云,谢 非,章 悦,刘益剑(44)

基于遗传算法的综合布线路径布局研究 陈 超,陈振中(51)

土木工程

通风槽式地板下送风空调系统性能分析 朱宏辉,牛宝联,张忠斌(57)

环境科学与工程

基于 Web of Science 对土壤有机物污染修复研究的计量分析

..... 张雪伟,王佳熠,陈丹丹(65)

旅游地社会—生态系统子系统脆弱性比较分析——以大别山区 9 县(市)为例

..... 银马华,王 群,杨万明,顾寒月(75)

城乡规划学

长三角城市群旅游经济联系网络时空演化特征及驱动因素

..... 朱安琪,曹芳东,周春林(83)

《南京师范大学学报(工程技术版)》第 20 卷(2020)总目次 (I)

【期刊基本参数】CN32-1684/T * 2001 * q * A4 * 92 * zh * P * ¥6.00 * 900 * 12 * 2020-12

主 编:胡敏强;执行主编:莫祥银;执行编辑:陈 庆;英文编辑:司联合

第 20 卷终

JOURNAL OF NANJING NORMAL UNIVERSITY

(ENGINEERING AND TECHNOLOGY EDITION)

Vol. 20 No. 4

Dec, 2020

CONTENTS

Power Engineering and Engineering Thermophysics

- Study on Thermal Storage Process of Composite Material in Solar Energy Storage Heat Pump System
..... Huang Jinyan, Wu Wei, Wang Xiaoyu, Xia Man, Qin Zhixuan, Liao Yangsang, Yang Chen (1)
- Experimental Research on Heating Performance of Air Source Heat Pump Double-End System in Winter
..... Dai Chunxiang, Xia Yi, Han Wei, Zhu Yixiu (10)
- Numerical Simulation of Soot Formation in Laminar C_2H_4 Opposed-flow Diffusion Flames under Different Pressures
..... Wang Shengfu, Xi Jianfei, Gu Zhongzhu, Cai Jie (16)

Power engineering

- Fourier Series Modeling and Controller Design of Modular Multilevel DC Transformer
..... Wu Xingyu, Min Fuhong, Wang Guoning, Wang Zhigang, Hou Kai (22)
- Research on Fault Tolerant Control of Active Suspension System Based on Kalman Filtering and LQG Control Algorithm
..... Wang Yurong, Zhang Hailong, Wang Enrong (30)

Computer Science and Technology

- TLD Object Tracking Algorithm Based on Kernelized Correlation Filter Dong Chunyan, Liu Huai, Liang Qinjia (37)
- Vehicle Detection Algorithm Based on Improved Mask R-CNN in Traffic Surveillance Video
..... Lu Fei, Shen Shibin, Su Xiaoyun, Xie Fei, Zhang Yue, Liu Yijian (44)
- Research on Route Planning of Generic Cabling Based on Genetic Algorithm Chen Chao, Chen Zhenzhong (51)

Civil Engineering

- Performance Analysis on the Air Conditioning System Under Floor with Ventilation Trough Zhu Honghui, Niu Baolian, Zhang Zhongbin (57)

Environmental Science and Engineering

- Bibliometric Analysis of Research Papers on Remediation of Organic Contaminated Soils Based on Web of Science
..... Zhang Xuwei, Wang Jiayi, Chen Dandan (65)
- Comparative Analysis of the Vulnerability of the Socio-Ecological Subsystems of Tourist Destination—Take 9 Counties in Dabie Mountain Area
as an Example Yin Mahua, Wang Qun, Yang Wanming, Gu Hanyue (75)

Urban Planning

- Spatial-Temporal Evolution Characteristics and Driving Factors of Tourism Economic Connection in the Yangtze River Delta
..... Zhu Anqi, Cao Fangdong, Zhou Chunlin (83)

Total Catalogue of Journal of Nanjing Normal University (Engineering and Technology Edition) in 2020 (I)

Editor-in-Chief: HU Minqiang; Executive Editor-in-Chief: MO Xiangyin; Executive Editor: CHEN Qing;
Translation Editor: SI Lianhe

The End of Volume 20