

全国中文核心期刊
中国科技核心期刊
河南省第三届自然科学二十佳期刊
河南省优秀自然科学期刊

ISSN 1673-9787
CODEN HLDXA2

河南理工大学学报

JOURNAL OF
HENAN POLYTECHNIC UNIVERSITY

HENAN LIGONG DAXUE XUEBAO · ZIRAN KEXUE BAN

自然科学版
Natural Science

1

2022

第41卷 第1期
Vol.41 No.1

ISSN 1673-9787



9 771673 978224



双月刊

第 41 卷

2022 年第 1 期(总第 204 期)

目 次

安全·矿业

- 煤与瓦斯突出模拟试验研究进展及展望 韩颖 吕帅 张飞燕 董博文(1)
井下煤层长距离定点密闭取心技术及应用研究 龙威成(9)
不同粒径原煤、初次氧化煤与二次氧化煤氧化特性对比分析
..... 杨锴 杨胜强 许芹(17)
基于板壳理论的隐伏陷落柱突水煤层底板破断机理研究 刘港 张勃阳 吴琳琳(23)
深埋薄基岩综放工作面切顶卸压沿空留巷围岩协同控制技术研究
..... 赵社会 张广杰 王文(29)
基于改进 RBF 神经网络的采煤机截割煤岩性状智能识别 段铭钰 袁瑞甫 杨艺(43)

地质·测绘·环境

- 鄂尔多斯盆地东缘临兴区块盒 8 段致密砂岩储层煤层气低产原因剖析
..... 徐延勇 韩旭 张兵 陆小霞(52)
露天铜矿边坡工程地质分区及稳定性评价研究
..... 李勇 李昌存 庞仕辉 杜永刚 乔小兵 陶志刚(59)
GNSS 站坐标时间序列噪声估计方法探讨
..... 元亚菲 张以文 孔庆珠 李朋朋 李志远 张雨阳(67)
毛白杨落叶与不同深度土中 DOM 的紫外与荧光特性对比研究
..... 赵丽 孙超 黄兴宇 罗绍河 都聪聪 董大庄 康晴晴(75)
亲环境组织氛围对员工绿色行为的影响及多步多重中介效应模型
..... 彭清华 聂巧媛 陈应龙(81)
- 机械·动力
- 不同卸荷工况下采煤机滚筒截割性能研究 张强 张晓宇(91)

主 编 杨小林
执行主编 朱雪里
副 主 编 宫福满

本期责任编辑 郭倩倩

2022 年 1 月出版

基于嵌入式的单目视觉工业机器人视觉定位系统设计

..... 王少锋 夏广远 吉春生 王海岭(100)

压电柔性机械臂振动模拟与 BP-PID 控制 瑶世杰 程良彦 闫安志(107)

电气·电子·自动化

基于 ADAMS 的双齿圈人字行星齿轮传动系统动力学仿真与故障特征分析

..... 任菲 王得玺 时桂芹 梁栋 王琪 王宁 白温毓 易园园(114)

线性相位可调的重复学习控制及其逆变器应用

..... 李振轩 李红飞 霍娟娟 宗纪佳(122)

基于影响图和模糊概率的电网元件多准则风险评估研究 ... 杨飞 胡万强 李耀辉(129)

计算机·人工智能·大数据

基于 RF-LSTM 组合模型的股票价格预测

李辉 化金金 邹波蓉(136)

基于 DWT、MEMD 和模糊熵的脑电信号特征提取与分类研究

..... 陈倩倩 徐健 刘秀平 黄磊 惠楠(143)

力学·土木·材料

轴向运动碳纳米管增强复合材料板的自由振动研究

..... 黄小林 钟德月 刘思奇 魏耿忠(153)

弯曲荷载下玄武岩纤维混凝土疲劳寿命与韧性分析 皇民 陈刚 赵玉如(159)

正融土-混凝土接触面力学性质与分析 潘一鸣 王伯昕 张中琼 王清(167)

土体加固范围对既有盾构隧道轨道的影响分析 孟庆坤 徐国元(174)

劲性搅拌桩复合地基承载特性数值分析 朱庆华 朱志慧 左威龙 费康(181)

[期刊基本参数]CN 41-1384/N * 1981 * b * A4 * 196 * zh * P * ¥25.00 * 1500 * 24 * 2022-1

Journal of Henan Polytechnic University

(Natural Science)

Vol. 41 No. 1

Series No. 204

Jan. 2022

CONTENTS

- Research progress and prospect of coal and gas outburst simulation experiments HAN Ying, LYU Shuai, ZHANG Feiyan, et al(1)
- Research of long distance fixed-point sealed coring technology and application in underground coal seam LONG Weicheng(9)
- Comparative analysis of oxidation characteristics of raw coal, primary oxidized coal and secondary oxidized coal with different particle sizes YANG Kai, YANG Shengqiang, XU Qin(17)
- Study on the mechanism of floor breakage after water-inrush from the hidden collapse column based on the plate and shell theory LIU Gang, ZHANG Boyang, WU Linlin(23)
- Study on coordinated control technology of surrounding rock in self-made roadway without coal pillar in roof-cutting and pressure-relief of fully-mechanized caving face with deep buried thin bedrock ZHAO Shehui, ZHANG Guangjie, WANG Wen(29)
- Intelligent recognition of coal and rock properties in shearer cutting process based on improved RBF neural network DUAN Mingyu, YUAN Ruifu, YANG Yi(43)
- Reasons for low productivity of the dense sandstone gas reservoir in the 8th member of the Shihezi Formation in the Linxing Block, eastern Erdos Basin XU Yanyong, HAN Xu, ZHANG Bing, et al(52)
- Study on engineering geological zoning and stability evaluation of the open-pit copper mine slope LI Yong, LI Changcun, PANG Shihui, et al(59)
- On the noise estimation method of GNSS station coordinate time series YUAN Yafei, ZHANG Yiwen, KONG Qingzhu, et al(67)
- Comparative study of ultraviolet and fluorescence characteristics of *Populus tomentosa* leaf litter and DOM from soil at different depths ZHAO Li, SUN Chao, HUANG Xingyu, et al(75)
- Influence of pro-environmental organizational climate on employees' green behavior and a multi-step multi-mediating effect model PENG Qinghua, NIE Qiaoyuan, CHEN Yinglong(81)
- Research on cutting performance of shearer drum under different coal unloading condition ZHANG Qiang, ZHANG Xiaoyu(91)
- Design of positioning system of industrial robot with monocular vision based on embedded system WANG Shaofeng, XIA Guangyuan, JI Chunsheng, et al(100)
- Vibration simulation and BP-PID control of flexible arm JU Shijie, CHENG Liangyan, YAN Anzhi(107)
- Dynamic simulation and fault analysis of double ring herringbone planetary gear transmission system based on ADAMS REN Fei, WANG Dexi, SHI Guiqin², LIANG Dong(114)
- Repetitive learning control with adjustable linear phase and the application in inverters LI Zhenxuan, LI Hongfei, HUO Juanjuan, et al(122)
- Research on multi-criteria risk assessment of power grid components based on influence diagram and fuzzy probability YANG Fei, HU Wanqiang, LI Yaohui(129)
- Stock price prediction based on RF-LSTM combination model LI Hui, HUA Jinjin, ZOU Borong(136)
- Research on feature extraction and classification of EEG signal based on DWT, MEMD and fuzzy entropy CHEN Qianqian, XU Jian, LIU Xiuping, et al(143)
- Study on free vibration of axially moving carbon nanotube-reinforced composite plate HUANG Xiaolin, ZHONG Deyue, LIU Siqi, et al(153)
- Analysis on fatigue life and toughness of basalt fiber reinforced concrete under bending load HUANG Min, CHEN Gang, ZHAO Yuru, et al(159)
- Analysis on mechanical properties of thawing soil-concrete interface PAN Yiming, WANG Boxin, ZHANG Zhongqiong, et al(167)
- Influence analysis of soil reinforcement range on existing shield tunnels orbital MENG Qingkun, XU Guoyuan(174)
- Numerical analysis on bearing behaviors of composite foundation with stiffened deep cement mixing piles ZHU Qinghua, ZHU Zhihui, ZUO Weilong, et al(181)

Editor of English YUAN Xingqi(袁兴起) LIU Chao(刘超)