

山东科学

SHANDONG KEXUE

第37卷(卷终) 第6期(总第191期) 2024年12月出版

目次

* 海洋科技与装备 *

基于小波变换与改进时间序列模型的船舶升沉运动预测方法 ... 刘志臻, 黄鲁蒙, 孙亚鹏, 张颖, 刘振东(1)

自诱导漩渦收油器的结构参数优选与除油效果研究 张芮菡, 姜乐文, 王越, 郝宗睿(12)

* 中药与天然活性产物 *

绿原酸分子印迹共价有机框架的制备及其识别性能研究 王尤胆, 纪文华, 王晓(22)

基于多糖及熵权-TOPSIS 的灵芝药材质量评价研究 杨志城, 孙彩虹, 叶冠(31)

* 药理与毒理 *

基于网络药理学和分子对接技术预测西洋参抗衰老的作用机制
..... 范伟, 沈川琳, 张轩铭, 杜兴硕, 展文, 孙晨, 靳梦, 李晓彬, 张思晨, 孙博通, 何秋霞(42)

基于 PI3K/AKT/Gsk-3 β 通路研究山药多糖对运动疲劳小鼠的影响
..... 曾婷, 杨然, 李庆军, 宫亚楠, 王书珍, 刘谦(51)

* 农业微生物 *

桂花精酿啤酒工艺研究与品质分析 郝倩, 孟德文, 吕媛, 战航山, 王成浩, 陈思酉, 李杰(59)

* 新材料 *

常用双极板焊接工艺及其接头组织性能对比研究 侯东旭, 殷子强, 任远, 马新强, 成巍(67)

新型本征二维 GeO₂ 对 SF₆ 分解气体的吸附及电子特性研究 杨乐, 孙婉婉, 丁立顺, 曾闻天(75)

邻苯二甲腈树脂研究及应用进展
..... 朱光来, 于一涛, 刘强, 刘海明, 侯衍涛, 许超, 张维, 姜传兴, 李元月, 潘新敬, 李冰, 王振华(83)

* 交通运输 *

基于量子计算的灵活编组列车大小交路混合运行优化方法 ... 袁也, 徐皓, 卢学永, 李文新, 徐辉章, 杨欣(94)

面向复杂交通场景的目标检测模型 YOLO-T 刘宇, 高尚兵, 张秦涛, 张莹莹(104)

* 环境与生态 *

基于 LSTM 模型的污水处理厂出水总氮预测研究 余铭铨, 师浩铭(116)

全球中低纬度降水量时空特征分析 王秋妍, 宋秀瑜, 杨帆, 李耀如(125)

《山东科学》第37卷2024年总目次 (I)

CONTENTS

* Oceanographic Science , Technology and Equipment *

Ship heave motion prediction method based on wavelet transform and improved time series model
..... LIU Zhizhen ,HUANG Lumeng ,SUN Yapeng ,ZHANG Ying ,LIU Zhendong(1)

Optimization of structural parameters and oil removal effect of a self-induced vortex oil collector
..... ZHANG Ruihan ,JIANG Lewen ,WANG Yue ,HAO Zongrui(12)

* Traditional Chinese Medicine and Natural Active Products *

Preparation and recognition property of molecularly imprinted covalent organic framework of chlorogenic acids
..... WANG Youdan ,JI Wenhua ,WANG Xiao(22)

Quality evaluation of *Ganoderma lucidum* as a medicinal material based on polysaccharides and entropy-weighted TOPSIS
..... YANG Zhicheng ,SUN Caihong ,YE Guan(31)

* Pharmacology and Toxicology *

Prediction of anti-aging mechanism of *Panax quinquefolius* L. by network pharmacology and molecular docking
..... FAN Wei ,SHEN Chuanlin ,
ZHANG Xuanming ,DU Xingshuo ,ZHAN Wen ,SUN Chen ,JIN Meng ,LI Xiaobin ,ZHANG Sichen ,SUN Botong ,HE Qiuxia(42)

Effects of *Dioscorea opposita* Thunb. polysacchariades on exercise-related fatigue in mice through the PI3K/AKT/Gsk-3β pathway
..... ZENG Ting ,YANG Ran ,LI Qingjun ,GONG Yanan ,WANG Shuzhen ,LIU Qian(51)

* Microbiology of Agriculture *

Study on the process research and quality analysis of Osmanthus craft beer
..... HAO Qian ,MENG Dewen ,LÜ Yuan ,ZHAN Hangshan ,WANG Chenghao ,CHEN Siyou ,LI Jie(59)

* New Materials *

Comparative study on the common bipolar plate welding processes and their joint microstructures and performance
..... HOU Dongxu ,YIN Ziqiang ,REN Yuan ,MA Xinqiang ,CHENG Wei(67)

Adsorption of SF₆ decomposed gases and its electronic properties on a novel pristine two-dimensional GeO₂
..... YANG Le ,SUN Wanwan ,DING Lishun ,ZENG Wentian(75)

Research and application progress of phthalonitrile resin
..... ZHU Guanglai ,YU Yitao ,LIU Qiang ,
LIU Haiming ,HOU Yantao ,XU Chao ,ZHANG Wei ,JIANG Chuanxing ,LI Yuanyue ,PAN Xinjing ,LI Bing ,WANG Zhenhua(83)

* Traffic and Transportation *

Quantum computing-based optimization method for train short-turn routing with flexible composition
..... YUAN Ye ,XU Hao ,LU Xueyong ,LI Wenxin ,XU Huizhang ,YANG Xin(94)

Object detection model YOLO-T for complex traffic scenarios
..... LIU Yu ,GAO Shangbing ,ZHANG Qintao ,ZHANG Yingying(104)

* Environment and Ecology *

Prediction of effluent total nitrogen in wastewater treatment using LSTM neural network
..... YU Mingquan ,SHI Haoming(116)

Analysis of spatiotemporal characteristics of global precipitation at middle and low latitudes
..... WANG Qiuyan ,SONG Xiuyu ,YANG Fan ,LI Yaoru(125)