

第32卷\第2期  
ISSN 1672-3767  
CN 37-1357/N  
CODEN SDZKF7

Journal of Shandong University  
of Science and Technology

# 山东科技大学

# 学报

# Natural Science

## 自然科学版

Shandong Keji Daxue Xuebao  
Ziran Kexue Ban



2  
2013

万方数据



# 山东科技大学 学报

自然科学版  
双月刊  
1979年创刊  
第32卷 第2期 总第145期  
2013年4月20日出版

## 目次

### 沉积·资源·环境

#### 琼东南盆地崖城组煤系空间展布特征

..... 李增学,周静,吕大炜,王东东,刘海燕,杨其栋(1)

#### 渤海湾盆地南堡凹陷滩海区油气立体输导模式

——以南堡1号构造带为例 ..... 刚文哲,邹俭巍,高岗(9)

#### 地下水流系统分异的试验演示及其意义 ..... 高宗军(17)

#### 川西坳陷新场气田上三叠统须家河组须四上段沉积微相研究

..... 雍云乔,侯明才,王文楷,王俊,李秀华(25)

#### 鄂北杭锦旗地区下石盒子组沉积相演化及控制因素

..... 李婕,赵俊兴,孔祥超,邹敏,向春晓(34)

### 土木建筑

#### 地震作用下坡面形态对岩质边坡稳定性的影响

..... 言志信,史盛,党冰,李斌(43)

#### 防腐涂层对混凝土抗碳化性能的影响 ..... 李果,董晶,杨璞(49)

#### 直角坐标系下梯度材料弹性力学平面问题的解析解 ... 陈娟,肖洪天(53)

#### I型裂纹断裂韧性数值与理论计算比较分析

..... 徐志强,黎立云,刘一,韩智超,付小明(61)

---

深部岩石巷道爆破卸荷的破裂范围研究 ..... 刘 伟,张 伟,陈士海(66)

埋入式基础地基阻抗函数分析 ..... 曹新风,范存新,闫 静(71)

---

## 机器人与智能技术

PT1300 型局部闭链式码垛机器人动力学分析

..... 张良安,单家正,马寅东,刘凤臣,解安东,刘黎明(79)

一种聚类与灰度投影相结合的电子稳像方法

..... 赵 猛,曹茂永,滕升华(85)

基于高斯混合建模的多尺度 HOG 行人头肩特征检测

..... 芮 挺,曹 鹏,张金林,马光彦,孙仁武(90)

---

## 机电工程

基于最小二乘法的磷酸铁锂电池 SOC 估计

..... 孙传余,肖林京,于志豪,李洪宇,朱绪力(94)

分布式电源的配网合环短路电流分析

..... 房静静,吉兴全,高 鹏,李可军(103)

专栏征稿 ..... (42,65,84,89)

期刊基本参数:CN37-1357/N\*1979\*b\*A4\*108\*zh\*P\*¥10.00\*1000\*16\*2013-04



# Journal of Shandong University of Science and Technology Natural Science

No. 2 2013

**CONTENTS**

Coal-bearing Distribution Characteristics of Yacheng Formation in Qiongdongnan Basin ..... Li Zengxue, Zhou Jing, Lü Dawei, Wang Dongdong, Liu Haiyan, Yang Qidong(1)	1
Hydrocarbon Migration Pattern of Beach Region in the Nanpu Depression, Bohai Bay Basin ——An Example of Nanpu 1 Structure Belt ..... Gang Wenzhe, Zou Jianwei, Gao Gang(9)	9
Experimental Demonstration and Significance of Groundwater Flow System Differentiation ..... Gao Zongjun(17)	17
Sedimentary Microfacies of Upper Xu 4 Submember of Upper Triassic in the Xinchang Gas Field of West Sichuan Depression ..... Yong Yunqiao, Hou Mingcai, Wang Wenkai, Wang jun, Li Xiuhua(25)	25
Sedimentary Facies Evolution and Controlling Factors of Lower Shihezi Formation in Hangjinqi Area, North Ordos Basin ..... Li Jie, Zhao Junxing, Kong Xiangchao, Zou Min, Xiang Chunxiao(34)	34
Influence of the Slope Shape on the Stability of Rock Slope under the Seismic ..... Yan Zhixin, Shi Sheng, Dang Bing, Li Bin(43)	43
Effect of Anti-corrosion Coatings on Concrete Carbonation Capability ..... Li Guo, Dong Jing, Yang Pu(49)	49
Analytical Solutions to 2D Elastic Problems of Graded Materials in Cartesian Coordinates ..... Chen Juan, Xiao Hongtian(53)	53
Comparative Analysis of Numerical and Theoretical Calculation of Fracture Toughness Model I Fracture ..... Xu Zhiqiang, Li Liyun, Liu Yi, Han Zhichao, Fu Xiaoming(61)	61
Study on Cracking Area of Deep Rock Tunnel under Blasting Unloading ..... Liu Wei, Zhang Wei, Chen Shihai(66)	66
Analysis of Impedance Function of Embedded Foundation ..... Cao Xinfeng, Fan Cunxin, Yan Jing(71)	71
Dynamic Analysis on PT1300 Type Palletizing Robot Containing Closed-loop ..... Zhang Liang'an, Shan Jiazheng, Ma Yindong, Liu Fengchen, Xie Andong, Liu Liming(79)	79
An Electronic Image Stabilization Algorithm Based on Clustering Combined with Gray Projection ..... Zhao Meng, Cao Maoyong, Teng Shenghua(85)	85
Pedestrian Detection Based on Gaussian Mixture Model and Multilevel Head-shoulder HOG ..... Rui Ting, Cao Peng, Zhang Jinlin, Ma Guangyan, Sun Renwu(90)	90
SOC Estimation of LiFePO <sub>4</sub> Battery Based on the Least Squares Algorithm ..... Sun Chuanyu, Xiao Linjing, Yu Zhihao, Li Hongyu, Zhu Xuli(94)	94
Analysis of Loop-closing Short-circuit Current with Distributed Generation Combination in Distribution Network ..... Fang Jingjing, Ji Xingquan, Gao Peng, Li Kejun(103)	103