

# 四川理工学院学报

## 自然科学版

1988 年创刊 · 双月刊 · 2016 年 6 月 20 日出版 · 第 29 卷第 3 期 · 总第 133 期

### 目次

#### · 化学、生物及材料科学 ·

- 微米级多孔金属氧化物的制备及应用研究 尚学军,尚泽仁,卢志红(1)
- 超声波辅助草酸对钾长石促释性能研究 袁秋兰,吴滢花(5)
- 静电纺丝制备聚酰亚胺无纺布纤维膜工艺及性能研究 罗少伶,陈建,胥会,聂松,代祖洋(9)
- 纳米金的制备、表征及应用研究 周睿璐,付大友,袁东,吴永强,谯康全(14)

#### · 电子及计算机科学 ·

- 一种高精度 TR - UWB 系统同步算法 张永棠(19)
- 一种基于混合核函数 SVM 的人脸识别方法 晏志超,姚亮,韩超(23)

#### · 工程力学 ·

(栏目主持人:唐克伦博士)

- 扰动本构方法研究非牛顿纳米流体传热流动(英文) 韩式方,伍岳庆,肖帆(27)
- 独立旋转车轮踏面外形优化设计方法 钟晓波,陶功安,罗彦云,易兴利(33)

- 美国《化学文摘》(CA) 收录期刊
- 波兰《哥白尼索引》(IC) 收录期刊
- 美国《乌利希期刊指南》(UPD) 收录期刊
- 《中国核心期刊(遴选)数据库》收录期刊
- 四川省高校优秀科技期刊
- 四川省高校特色科技期刊

---

高阶剪切理论下梯度直梁在热环境中的静动态响应分析	常学平,成志强,柳葆生(39)
压电智能结构的损伤识别研究	杜天宇,唐达培,刘冬冬(46)
焊缝不平顺对车辆-无砟轨道-路基系统振动特性的影响	裴承杰,宋小林,穆 玲(50)
边界应力对石墨烯翘曲的影响	张海正,师明星(55)
基于改进 J-C 模型的 42CrMo 钢动态本构关系研究	卢也森,朱志武,谢奇峻(61)
基于时温等效原理的热致形状记忆聚合物模型	张泽斌,阚前华,董诗玉,李 建,康国政(66)
结构位移对受电弓气动抬升力的影响分析	林泽峰,杨翊仁(70)

## · 工程质量、安全与防灾减灾 ·

(栏目主持人:吴佳晔博士)

预应力混凝土结构收缩与徐变损失的计算分析与有限元模拟研究	黄 颖,高 杰(75)
黄土地区深基坑土压力监测与分析	赵 敏,厉广广,孟令冬(81)

## · 数理基础科学 ·

广义菲涅尔积分的积分交换次序计算方法	邢家省,杨小远(85)
一类高阶常系数线性微分方程的特解公式	张守贵(93)
具有免疫应答的 HIV 感染模型的稳定性	田海燕,郭建敏,郭彩霞(96)

# Journal of Sichuan University of Science & Engineering

## (Natural Science Edition)

Started in 1988 / Bimonthly / No. 3(Sum. No. 133) Vol. 29 / Published on Jun. 2016

---

### CONTENTS

- Study on Preparation and Application of Micrometer Porous Metal Oxide ..... *SHANG Xuejun, SHANG Zeren, LU Zhihong*(1)
- Effect of Oxalate Acid on Release From Potassium Feldspar Assisted by Ultrasonic ..... *YUAN Qiulan, WU Yanhua*(5)
- Study on the Technology and Properties of Polyimide Nonwoven Fabric by Electrospun  
..... *LUO Shaoling, CHEN Jian, XU Hui, NIE Song, DAI Zuyang*(9)
- Preparation, Characterization and Application of Gold Nanoparticles  
..... *ZHOU Ruilu, FU Dayou, YUAN Dong, WU Yongqiang, QIAO Kangquan*(14)
- A High-precision Synchronization Algorithm TR-UWB System ..... *ZHANG Yongtang*(19)
- A Face Recognition Method Based on Combined-kernel Function SVM ..... *YAN Zhichao, YAO Liang, HAN Chao*(23)
- Disturbed Constitutive Approach to Heat Transfer of Non-Newtonian Nanofluid Flow ... *HAN Shifang, WU Yueqing, XIAO Fan*(27)
- Optimization Method for Independent Rotating Wheel Profiles ..... *ZHONG Xiaobo, TAO Gongan, LUO Yanyun, YI Xingli*(33)
- The Static and Dynamic Response Analysis for Functionally Graded Materials Based on High Order Shear Under Heated  
..... *CHANG Xueping, CHENG Zhiqiang, LIU Baosheng*(39)
- Research on Damage Identification of Piezoelectric Smart Structures ..... *DU Tianyu, TANG Dapei, LIU Dongdong*(46)
- Influence of Weld Irregularity on Dynamic Responses of Vehicle-track on Subgrade Vibration System  
..... *PEI Chengjie, SONG Xiaolin, MU Ling*(50)
- Effect of Stress on the Boundary of Graphene Sheets ..... *ZHANG Haizheng, SHI Mingxing*(55)
- Study on Dynamic Constitutive Relation of 42CrMo Steel Based on Johnson-Cook Model  
..... *LU Yesen, ZHU Zhiwu, XIE Qijun*(61)
- A Model of Glassy Shape Memory Polymer Based on Time-temperature Equivalence Principle  
..... *ZHANG Zebin, KAN Qianhua, DONG Shiyu, LI Jian, KANG Guozheng*(66)
- Analysis on Effects of Structural Displacement on Pantograph's Aerodynamic Uplift Force ..... *LIN Zefeng, YANG Yiren*(70)
- Computational Analysis and Finite Element Simulation Study on Shrinkage and Creep of Prestressed Concrete Structures  
..... *HUANG Ying, GAO Jie*(75)
- Monitoring and Analysis of Soil Pressure of Deep Foundation Pit in Loess Area  
..... *ZHAO Min, LI Guangguang, MENG Lingdong*(81)
- Calculation of Integrals Exchange of Generalized Fresnel Integrals ..... *XING Jiasheng, YANG Xiaoyuan*(85)
- The Formula of Special Solution for a Kind of High-order Linear Differential Equation with Constant Coefficients  
..... *ZHANG Shougui*(93)
- Stability of a HIV Infection Model with Immune Response ..... *TIAN Haiyan, GUO Jianmin, GUO Caixia*(96)