



目 次

· 轻工科学与工程 ·

- 芳纶云母纸力学性能和绝缘性能的影响因素研究 杨凯伦, 闫 宁, 贾峰峰, 等(1)
- 纤维素酶和木聚糖酶改善 OCC 纸浆的滤水性能研究 庄 堃, 韩 卿, 刘 强, 等(9)
- 茶多酚改性牛干灰皮胶原复合膜的制备及其性能 许 伟, 海 芳, 刘 浩, 等(16)
- 多孔二氧化硅微球对制革工业废水中蛋白质的吸附分离研究 强涛涛, 朱润桐(22)
- 法桐树皮复合释碳填料的制备及其性能研究 谢林花, 严赛宁, 丁绍兰, 等(30)
- 铅、镉在给水厂残泥免烧陶粒上的竞争吸附特性 李智慧, 赵媛媛, 郭朝晖, 等(38)
- 固定 MPB1 菌群对养殖尾水的净化效果研究 郑 颖, 钟 宇, 陈永华, 等(46)

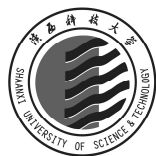
· 食品科学与生物工程 ·

- 茯砖茶中的金花菌对羊乳酪蛋白的影响 吕嘉枋, 马师君, 康 婕, 等(54)
- 低能 N^+ 注入诱导大肠杆菌对喹诺酮耐药的研究 王 婷, 张 敏, 李天宇, 等(61)
- 抗间皮素 CAR-T 细胞治疗胰腺癌的体外研究 田 静, 白天凯, 张之勇, 等(67)
- 对叶百部总生物碱保护 H_2O_2 诱导 V79 细胞损伤的作用及机制研究
..... 韦卫宁, 许立拔, 王孝勋, 等(74)

· 化学与化学工程 ·

- 分子印迹聚合物电化学传感器的构筑及其对多巴胺的检测性能研究
..... 邵彦明, 朱 莹, 郑 蕊, 等(81)
- 多羟基植酸衍生物交联改性水性聚氨酯胶黏剂的制备及其性能研究
..... 任龙芳, 林聪聪, 郭 悦, 等(87)

巨豆三烯酮-β-环糊精包合物的制备及其卷烟加香应用	刘云飞, 郭琪, 姬小明, 等(94)
明胶的改性及其在胶黏剂中的应用研究进展	王学川, 赵文莹, 张慧洁(100)
· 材料科学与工程 ·	
细菌纤维素衍生的多孔碳纳米纤维的制备及其电化学性能	王海花, 金倩倩, 舒珂维(109)
MnO ₂ /Co ₂ O ₃ 掺杂对 ZnO 压敏陶瓷影响的对比研究	曹文斌, 刘士花, 刘建科, 等(115)
氧化物纤维增强氧化物陶瓷基复合材料的研究进展 ...	钟辛子, 曹丽云, 黄剑锋, 等(121)
· 机械、电气工程与信息科学 ·	
含对边自由边界矩形板屈曲失稳的有限差分法求解 ...	付为刚, 廖喆, 熊焕杰, 等(134)
发动机冷却水套流场及考虑沸腾的共轭传热分析	谭礼斌, 袁越锦, 徐英英, 等(142)
电动汽车电池交换站与微网的协调优化调度	李智轩, 蔺红(150)
基于行驶工况识别的混合动力货车能量管理策略	韦超毅, 吴雨轮, 林长波, 等(158)
基于加权结构感知和雾天退化模型的低照度图像增强方法	姚斌, 魏玄颖, 韩振, 等(165)
基于灰狼算法优化的神经网络短期发电量预测	侯勇严, 杨澳, 郭文强, 等(171)
基于特征聚类的文本信息检索算法研究	杨宇环, 张开生(178)
基于 MA-BiLSTM 的多时间窗航班过站时间估计方法	曹卫东, 梁陈(183)
· 物理与数学科学 ·	
Cr,Ce 共掺杂调控 V ₃ O ₄ 半金属材料自旋极化机制的第一性原理研究	牛永, 王盼(191)
基于 Matlab 激光谐振腔中激光模式形成机理研究	张亚妮, 薛佳, 宋卓颖, 等(197)



Journal of Shaanxi University of Science & Technology

Published on Aug. 25. 2022

Vol. 40

No. 4

Sum No. 203

CONTENTS

Study on factors affecting mechanical properties and insulation properties of aramid mica paper	
.....	<i>YANG Kai-lun, YAN Ning, JIA Feng-feng, et al</i> (1)
Study on improving water filtration performance of OCC pulp by cellulase and xylanase	
.....	<i>ZHUANG Kun, HAN Qing, LIU Qiang, et al</i> (9)
Preparation and properties of tea polyphenol modified collagen composite films based on dry limed cow-hide fibers	
.....	<i>XU Wei, HAI Fang, LIU Hao, et al</i> (16)
Study on the adsorption and separation of protein in tannery wastewater by porous silica microspheres	
.....	<i>QIANG Tao-tao, ZHU Run-tong</i> (22)
Study on the preparation and properties of the compound carbon-releasing fillers from <i>Platanus orientalis</i> Linn bark	
.....	<i>XIE Lin-hua, YAN Sai-ning, DING Shao-lan, et al</i> (30)
Competitive adsorption characteristics of lead and cadmium on UCWTR	
.....	<i>LI Zhi-hui, ZHAO Yuan-yuan, GUO Zhao-hui, et al</i> (38)
Study on the purification effect of immobilized MPB1 flora on aquaculture tail water	
.....	<i>ZHENG Ying, ZHONG Yu, CHEN Yong-hua, et al</i> (46)
Effect of golden-flower fungus in Fu brick tea on goat milk casein	
.....	<i>LV Jia-li, MA Shi-jun, KANG Jie, et al</i> (54)
Study on quinolone resistance in <i>Escherichia coli</i> by low energy N ⁺ implantation	
.....	<i>WANG Ting, ZHANG Min, LI Tian-yu, et al</i> (61)
In vitro study of anti-mesothelin CAR-T cells for pancreatic cancer	
.....	<i>TIAN Jing, BAI Tian-kai, ZHANG Zhi-yong, et al</i> (67)
Study on the protective effects and mechanism of total alkaloids from <i>Stemona Tuberosa</i> Lour by H ₂ O ₂ -induced injury in V79 cells	
.....	<i>WEI Wei-ning, XU Li-ba, WANG Xiao-xun, et al</i> (74)
Study on preparation of electrochemical sensor based on molecular imprinted polymer and the application property of dopamine detection	
.....	<i>SHAO Yan-ming, ZHU Ying, ZHENG Rui, et al</i> (81)
Study on preparation and properties of crosslinking modification of waterborne polyurethane adhesive with polyhydroxyphytic acid derivatives	
.....	<i>REN Long-fang, LIN Cong-cong, GUO Yue, et al</i> (87)

Preparation and cigarette flavoring application of Megastigmatrienone- β -cyclodextrin inclusion complex	LIU Yun-fei , GUO Qi , JI Xiao-ming , et al (94)
Research progress on modification of gelatin and its application in adhesives	WANG Xue-chuan , ZHAO Wen-ying , ZHANG Hui-jie (100)
Preparation and electrochemical performance of porous carbon nanofibers derived from bacterial cellulose	WANG Hai-hua , JIN Qian-qian , SHU Ke-wei (109)
A comparative study;The effect of MnO ₂ /Co ₂ O ₃ doping on ZnO varistors	CAO Wen-bin , LIU Shi-hua , LIU Jian-ke , et al (115)
Research progress of oxide ceramic matrix composites reinforced by oxide fiber	ZHONG Xin-zi , CAO Li-yun , HUANG Jian-feng , et al (121)
Finite difference method for the solution of buckling instability for rectangular plates with opposite free boundary edges	FU Wei-gang , LIAO Zhe , XIONG Huan-jie , et al (134)
Flow field analysis and conjugate heat transfer modeling of engine cooling water jacket considering boiling	TAN Li-bin , YUAN Yue-jin , XU Ying-ying , et al (142)
Coordination and optimization of electric vehicle battery swap station and microgrid	LI Zhi-xuan , LIN Hong (150)
Energy management strategy of hybrid electric truck based on driving condition recognition	WEI Chao-yi , WU Yu-lun , LIN Chang-bo , et al (158)
A low-illumination image enhancement method based on structure-aware weighting function and haze-degradation model	YAO Bin , WEI Xuan-ying , HAN Zhen , et al (165)
Short-term power generation prediction using grey wolf optimization algorithm and neural network	HOU Yong-yan , YANG Ao , GUO Wen-qiang , et al (171)
Research on text information retrieval algorithm based on feature clustering	YANG Yu-huan , ZHANG Kai-sheng (178)
Multi-time window flight turnaround time estimation method based on MA-BiLSTM model	CAO Wei-dong , LIANG Chen (183)
Study on first-principles of the effect of Cr and Ce co-doping on spin polarization in semimetal V ₃ O ₄	NIU Yong , WANG Pan (191)
Study on the formation mechanism of laser mode in resonant cavity based on Matlab	ZHANG Ya-ni , XUE Jia , SONG Zhuo-ying , et al (197)
