

CNKI来源期刊
中国中文核心期刊
中国科技核心期刊
中国高校优秀科技期刊

西南师范大学学报

JOURNAL OF SOUTHWEST CHINA
NORMAL UNIVERSITY

自然科学版

NATURAL
SCIENCE EDITION

2020. 5
第45卷/第5期



西南师范大学学报

(自然科学版)

第 45 卷 第 5 期

总第 278 期

2020 年 5 月 20 日出版

目次

· 基础研究 ·

一类接种率受媒体报道影响的传染病模型分析	王艳妮, 刘贤宁 (001)
两个异质城市间具有路途感染的 SEIR 传染病模型	康 萍, 刘贤宁 (007)
对数广义误差分布极值的渐近展开	谭小枫, 彭作祥 (013)
修正的扩展林德利—威布尔分布	张 泓, 李婷婷 (017)
基于染病人数检测的布鲁氏菌病动力学模型分析	冯建武, 侯 强 (024)
带非线性滑移边界条件的 Stokes 方程的一种并行有限元算法	周康瑞, 尚月强 (032)
带有 Lévy 噪声和媒体报道的随机 SIRI 模型的定性分析	邢佳丽, 赵爱民, 刘桂荣 (039)
圆柱体温度稳定的一种新方法	祝 晶, 刘星岚, 谢成康 (045)
一类非线性三阶微分方程边值问题多个解的存在性	纪宏伟 (051)
单层 AlN 类石墨烯材料热力学性质随温度的变化研究	何勇军, 周庭燕, 马朝科 (058)

· 应用研究 ·

搬迁农户耕地利用状况及其影响因素分析	
——基于贵州省 201 户集镇安置型易地扶贫搬迁农户的实证 ...	冯应斌, 韩佩松, 胡 梅 (064)
基于教育高阶理论和资源诅咒理论双重视角的“海归”董事与企业创新研究	傅小敬 (072)
社会资本视角下大学生就业质量影响及对策	罗浩准, 王 斌 (080)
宏观经济与利率之间关系的斯文森分析	李 露 (087)

我国新型主流媒体大众认同困境及其破解策略研究 文 娟，崔玉洁，车 莹（093）

多种归一化方法对 miRNA 微阵列数据的作用分析及比较 侯丽云，张 旭，吴 珍（098）

复合胁迫下复羽叶栎树对 Cd 和 Pb 的吸收富集研究 李萧萧，冯丽涵，李 凌（103）

重庆“8. 22”暴雨 ECMWF 模式中期预报转折分析 王 欢，邓承之，李 晶，刘 超（109）

一种新颖的带状线功分器等效电路分析方法 于正永，唐万春（114）

基于移动 sink 的无线传感器网络海星路由协议 徐 璽（121）

基于自适应布谷鸟搜索算法的 Tsallis 熵阈值图像分割 黄毅英，黄河清（127）

终端用户编程的自然语言语义解析方法研究 高灵霞，孙凤兰（134）

基于重复异构最早完成时间的云计算任务调度算法 蔡昌许（141）

郑州植物园园艺体验区空间设计研究 刘路祥，田朝阳（148）

• 教学研究与改革 •

《大学生职业发展与就业指导》教学现状及对策研究

——以重庆市理工农类专业为例 严 怡（156）

《发酵工程》双语教学的探索与实践 龙梦娴，谢 洁（165）

普通化学课程教学改革探析 向芸颀，陈 异，郭 宁，彭索萍（168）

慕课和虚拟仿真在物理化学实验教学中的作用 凌 玉，李念兵，罗红群（174）

非独立设课有机化学实验考核体系改革的探讨 苏学素（178）

渔业资源生物学教学内容改革探索 吕红健，付 梅，苏胜齐，熊 波，彭希文，姚维志（182）

垃圾焚烧烟气处理虚仿综合实验的应用

——以大气污染控制工程课程教学为例 张 艳，柳 丹，王懿祥，骆林平（186）

**JOURNAL OF SOUTHWEST CHINA
NORMAL UNIVERSITY
(NATURAL SCIENCE EDITION)**

May 20, 2020

CONTENTS

Analysis of a Kind of Epidemic Model with Vaccination Rate Related to Media Coverage
..... WANG Yan-ni, LIU Xian-ning (001)

On Dynamics of an SEIR Epidemic Model with Transport-Related Infection between Two Heterogeneous Cities
..... KANG Ping, LIU Xian-ning (007)

Asymptotic Expansion of Extremes for Logarithmic General Error Distribution TAN Xiao-feng, PENG Zuo-xiang (013)

Modified Slashed Lindley-Weibull Distribution ZHANG Hong, LI Ting-ting (017)

Analysis of Brucellosis Dynamics Model with the Number of Infected People as the Detection Information
..... FENG Jian-wu, HOU Qiang (024)

A Parallel Finite Element Algorithm for Stokes Equations with Nonlinear Slip Boundary Conditions
..... ZHOU Kang-rui, SHANG Yue-qiang (032)

Qualitative Analysis of Stochastic SIRI Model with Lévy Noise and Media Reports
..... XING Jia-li, ZHAO Ai-min, LIU Gui-rong (039)

A New Strategy to Stabilize the Temperature in a Cylinder ZHU Jing, LIU Xing-lan, XIE Cheng-kang (045)

On Existence of Multiple Solutions for a Class of Nonlinear Third Order Differential Equations with Boundary
Value Problems JI Hong-wei (051)

Temperature Dependence of Thermo Dynamic Properties of Graphene-Like AlN 2D Materials
..... HE Yong-Jun, ZHOU Ting-Yan, MA Chao-Ke (058)

On Utilization of Cultivated Land and Its Influential Factors of Poverty Alleviation and Relocation Households
in Town Resettlement Sites—An Empirical Study on 201 Relocation Households in Guizhou Province
..... FENG Ying-bin, HAN Pei-song, HU Mei (064)

On Enterprise Innovation by “Overseas Returnee” Directors on the Basis of the Upper Echelons Theory and Resource
Curse Theory FU Xiao-jing (072)

Effect of Social Capital on Graduate Employment and Optimizing Strategies	LUO Hao-zhun, WANG Bin (080)
On Svenson's Analysis of Relationship between Macroeconomy and Interest Rate	LI Lu (87)
On Dilemma of China's New Mainstream Media and Its Cracking Strategy	WEN Juan, CUI Yu-jie, CHE Ying (093)
Analysis and Comparison of Various Normalization Methods on Microarray Data of MiRNA	HOU Li-yun, ZHANG Xu, WU Zhen (098)
On Absorption and Accumulation Characteristics of <i>Koelreuteria Bipinnata Franch.</i> under Combined Pollution of Cd ²⁺ and Pb ²⁺	LI Xiao-xiao, FENG Li-han, LI Ling (103)
Analysis on ECMWF Model Medium-Term Forecast Transition of “8.22” Heavy Rainfall Process in Chongqing	WANG Huan, DENG Cheng-zhi, LI Jing, LIU Chao (109)
A Novel Equivalent Circuit Analytical Method of Striplines Power Divider	YU Zheng-yong, TANG Wan-chun (114)
Starfish Routing Protocol in Wireless Sensor Network with a Mobile Sink	XU Zhao (121)
Tsallis Entropy Thresholding Image Segmentation Based on Adaptive Cuckoo Search Algorithm	HUANG Yi-ying, HUANG He-qing (127)
On Natural Language Semantic Analysis Method of End User Programming	GAO Ling-xia, SUN Feng-lan (134)
Cloud Computing Task Scheduling Algorithm of Duplication Based Heterogeneous Earliest Finish Time	CAI Chang-xu (141)
Spaces Design of Horticultural Experience Area in Zhengzhou Botanical Garden	LIU Lu-xiang, TIAN Chao-yang (148)
A survey of the current situation of Career Development and Employment Guidance Course under new agricultural science construction	YAN Yi (156)
Exploration and Practice on Bilingual Teaching of “Fermentation Engineering”	LONG Meng-xian, XIE Jie (165)
Exploration on the Teaching Reform of the Course General Chemistry	XIANG Yun-jie, CHEN Yi, GUO Ning, PENG Suo-ping (168)
On Role of MOOC and Virtual Simulation Experiment in the Physical Chemistry Experiment Teaching	LING Yu, LI Nian-bing, LUO Hong-qun (174)
On Reform of Evaluation Method of Non-independent Organic Chemistry Experiment	SU Xue-su (178)
On Reformation and Innovation of Fisheries Biology	LYU Hong-jian, FU Mei, SU Sheng-qi, XIONG Bo, PENG Xi-wen, YAO Wei-zhi (182)
The Application of Virtual Synthetic Simulation Experiment in Waste Incineration Flue Gas Treatment ——Taking the Course of Air Pollution Control Engineering as an Example	ZHANG Yan, LIU Dan, WANG Yi-xiang, LUO Lin-ping (186)