

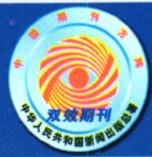
中国中文核心期刊 中国期刊方阵期刊 全国高校优秀学报 重庆市十佳科技期刊

ISSN 1000-5471

CN 50-1045/N

# 西南師範大學學報

JOURNAL OF SOUTHWEST CHINA NORMAL UNIVERSITY



自然科学版

NATURAL SCIENCE EDITION

XINAN SHIFAN DAXUE XUEBAO  
ZIRANKEXUEBAN



万方数据

第38卷第5期  
Vol.38 No.5

2013

中国重庆 CHONGQING CHINA

# 西南师范大学学报

## (自然科学版)

第 38 卷 第 5 期

总第 194 期

2013 年 5 月 20 日出版

## 目 次

### • 基础研究 •

- 半线性椭圆方程的多解问题 ..... 唐 悅, 吴行平, 唐春雷 (001)  
一类带临界指数的半线性椭圆方程多重变号解的存在性 ..... 刘 磊, 吴行平, 唐春雷 (005)  
免疫的乙肝动力学模型的全局性态 ..... 刘 鹏, 王稳地, 王秀男 (010)  
无界区域  $\mathbb{R}^1$  上耗散 mBBM 方程的全局吸引子 ..... 谢周艳, 朱朝生 (015)  
基于动态时隙 ALOHA 的多标签识别防碰撞算法 ..... 徐艳群, 张 斌, 秦小铁 (020)  
基于权重的软件可靠性混合模型研究 ..... 于 涛, 任 薇, 丁晓明 (025)  
求解包含 GI-FADE 和 FRSE 的分数阶偏微分方程的数值方法 ..... 王新成, 陈 畅 (030)  
模糊推理的 FMT 问题研究 ..... 马 洁 (037)  
宇宙始终在加速地膨胀吗 ..... 邓昭镜 (043)  
形状和原子数对纳米金刚石表面性质的影响 ..... 龙晓霞 (046)  
 $\text{AuBr}_3$  催化 2 - 烯丙基吡啶类衍生物合成中氮茚环化机理的密度泛函理论研究  
..... 王子嘉, 何荣幸, 李 明 (051)

### • 应用研究 •

- 一种新型茄子雄性不育系的发现和鉴定及遗传分析  
..... 李 冰, 高秀瑞, 武彦荣, 王洪昌, 潘秀清 (059)  
马缨丹 *Lantana camara* L. 对豌豆 *Pisum sativum* L. 的化感作用  
..... 田学军, 沈云玫, 袁 寒, 陶宏征 (063)  
咖啡酸苯乙酯衍生物对实验性肝损伤小鼠的保护作用 ..... 游 莉, 路晓钦, 董 志 (068)  
圆筒吻鮈的年龄生长及鱼体的化学组成和能量密度  
..... 彭 涛, 闫玉莲, 王 汗, 闫常春, 岳南南, 罗其勇, 谢小军 (072)

- 碧蛾蜡蝉成虫触角感器的电镜扫描观察 ..... 于玮台, 陈文龙 (078)  
犁头鳅消化系统的解剖 ..... 贾 砥, 普 焰, 苏胜齐, 杨 超, 牛江波, 姚维志 (083)  
SQL server 触发器在教务管理系统中的应用 ..... 沈 黎 (088)  
考虑环境因素的分布式能源多目标优化配置 ..... 万 欣, 石孝文, 冯 俊 (092)  
长期不同施肥与秸秆管理对紫色土水稻田 CH<sub>4</sub> 排放的影响  
..... 熊 靖, 张旦麒, 石孝均, 倪九派, 谢德体, 木志坚 (098)  
不同丛枝菌根真菌对梨园土壤微生物和土壤养分的影响  
..... 王莉琴, 牛琳琳, 刁莉华, 曾 明, 雷世梅, 伍加勇 (103)  
大都市边缘区高标准基本农田潜力评价及建设模式研究——以重庆市渝北区为例  
..... 李 涛, 廖和平, 杨 伟, 潘 卓, 庄 伟, 陈天才 (109)  
重庆市忠县农村建设用地集约利用评价研究 ..... 汤鹏程, 廖和平, 韦红吉, 吴 杰 (115)  
丘陵区城镇土地集约利用评价——以重庆市璧山县为例  
..... 吴 杰, 何多兴, 廖和平, 杨 坡, 杨 伟, 王海燕, 汤鹏程 (120)  
基于熵权法的重庆市水安全时间变化研究 ..... 黄玉宝, 徐 刚, 王 虎 (127)  
土地整治后期管护影响因素及保障体系分析——以三峡库区云阳县为例  
..... 杨丽娜, 何多兴, 杨庆媛 (134)  
低山丘陵区农田土壤有机质预测性制图 ..... 黄兴成, 颜家均, 刘洪斌, 陈心佩, 宋美霞 (142)

## • 教学研究与改革 •

- 拔尖创新人才培养的典型模式和实践反思  
..... 周光明, 段书凯, 杜彬恒, 邹显春, 朱亚萍, 陈时见 (150)  
浅谈计算机专业研究生创新能力的培养 ..... 高 超, 张自力, 李向华 (158)  
论课程教学中的素质创新能力培养 ..... 冉文江 (164)  
燃烧热测定实验技术的改进 ..... 黄 成, 彭敬东 (169)  
缺陷化学教学中的实验实例:Dy, Eu掺杂 SrAl<sub>2</sub>O<sub>4</sub> 长余辉发光材料  
..... 邹 建, 张 鹏, 刘昌华 (173)  
“环境影响评价”课程教学改革的初步探索 ..... 蒋珍茂, 陈玉成 (177)

---

期刊基本参数: CN50 - 1045/N \* 1957 \* b \* A4 \* 184 \* zh \* P \* ¥20.00 \* 1000 \* 33 \* 2013 - 05

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

Vol. 38 No. 5

Total No. 194

May. 20, 2013

**CONTENTS**

- Multiple Solutions for Semilinear Elliptic Equations ..... TANG Yue, WU Xing-ping, TANG Chun-lei (001)
- The Existence of Multiple Sign-Changing Solutions for a Class of Semilinear Elliptic Equation with a Critical Exponent ..... LIU Lei, WU Xing-ping, TANG Chun-lei (005)
- Global Dynamics of an HBV Model with Vaccination ..... LIU Peng, WANG Wen-di, WANG Xiu-nan (010)
- On Global Attractor of Dissipative mBBM Equation in Unbounded Domain  $\mathbb{R}^1$  ..... XIE Zhou-yan, ZHU Chao-sheng (015)
- On Anti-Collision Multi-Tag Identification Algorithm Based on Dynamic Slot ALOHA ..... XU Yan-qun, ZHANG Bin, QIN Xiao-tie (020)
- On Software Reliability Hybrid Model Based on Weight ..... YU Tao, REN Wei, DING Xiao-ming (025)
- On a Numerical Method for Solving the Fractional Partial Differential Equation Involving GI-FADE and FRSE ..... WANG Xin-cheng, CHEN Yang (030)
- On FMT of Fuzzy Reasoning ..... MA Jie (037)
- Has the Universe Always Been Accelerating in Expansion? ..... DENG Zhao-jing (043)
- On Influence of Shape and Atomicity on Surface Character in Nanodiamond ..... LONG Xiao-xia (046)
- Mechanism of  $\text{AuBr}_3$ -Catalyzed Synthesis of Highly Substituted Indolizine Based on 2-Propargylpyridine ..... WANG Zi-jia, HE Rong-xing, LI Ming (051)
- On Discover, Identification and Genetic Analysis of a New Male Sterile Line in Eggplant ..... LI Bing, GAO Xiu-rui, WU Yan-rong, WANG Hong-chang, PAN Xiu-qing (059)
- On Allelopathy of *Lantana camara* L. on *Pisum sativum* L. ..... TIAN Xue-jun, SHEN Yun-mei, YUAN Han, TAO Hong-zheng (063)
- On Protective Effects of Caffeic Acid Phenethyl Ester Derivates against Experimental Hepatotoxicity in Rats ..... YOU Li, LU Xiao-qin, DONG Zhi (068)
- On Age, Growth, Chemical Composition and Energy Density in *Rhinogobio cylindricus* ..... PENG Tao, YAN Yu-lian, WANG Gu, YAN Chang-chun, YUE Nan-nan, LUO Qi-yong, XIE Xiao-jun (072)
- Observation on Antennal Sensilla of *Geisha distinctissima* Walker Adult with Scanning Electron Microscope ..... YU Wei-tai, CHEN Wen-long (078)

- Anatomy on Digestive System of *Lepturichthys funbriata* ..... JIA Li, PU Jiong, SU Sheng-qi,  
YANG Chao, NIU Jiang-bo, YAO Wei-zhi (083)
- On Application of SQL Server Triggers in the Management System for Educational Administration ..... SHEN Li (088)
- Multi-Objective Optimization of Allocating Distributed Energy Considering Environment Attribute  
..... WAN Xin, SHI Xiao-wen, FENG Jun (092)
- Effects of Different Long-Term Fertilization and Crop Residue Management on Methane Emissions from Paddy Fields  
with Purple Soil ..... XIONG Jing, ZHANG Dan-Qi, SHI Xiao-jun, NI Jiu-Pai, XIE De-Ti, MU Zhi-jian (098)
- Effects of Different Arbuscular Mycorrhizal Fungi in Pear Orchard on Microorganisms and Nutrients in the Soil  
..... WANG Li-qin, NIU Lin-lin, DIAO Li-hua, ZENG Ming, LEI Shi-mei, WU Jia-yong (103)
- On Potentiality Evaluation and Construction Mode of High Standard Basic Farmland in Metropolitan Fringe Area  
—Taking Yubei District of Chongqing as an Example ..... LI Tao, LIAO He-ping, YANG Wei,  
PAN Zhuo, ZHUANG Wei, CHEN Tian-cai (109)
- On Evaluation of Intensive Use in Rural Construction Land in Zhong County, Chongqing  
..... TANG Peng-cheng, LIAO He-ping, WEI Hong-ji, WU Jie (115)
- Evaluation on Intensive Use of Urban Land in Hilly Area  
—A Case study of Bishan County of Chongqing ..... WU Jie, HE Duo-xing, LIAO He-ping,  
YANG Po, YANG Wei, WANG Hai-yan, TANG Peng-cheng (120)
- Time-Variation Assessment on Water Security of Chongqing Based on Entropy Weight  
..... HUANG Yu-bao, XU Gang, WANG Hu (127)
- An Analysis of Impact Factors and Safeguard System on Final Management and Maintenance of Land Consolidation  
—A Case Study of Yunyang County in the Three Gorges Reservoir Area ..... YANG Li-na,  
HE Duo-xing, YANG Qing-yuan (134)
- On Predictive Mapping of Farmland Soil Organic Matter in Hilly Areas ..... HUANG Xing-cheng, YAN Jia-jun,  
LIU Hong-bin, CHEN Xin-pei, SONG Mei-xia (142)
- On Typical Mode and Practice in Cultivating Creativity of Top Talents ..... ZHOU Guang-ming, DUAN Shu-kai,  
DU Bin-heng, ZHOU Xian-chun, ZHU Ya-ping, CHEN Shi-jian (150)
- On Cultivation of Innovative Capability of Postgraduate Students Majoring in Computer Science  
..... GAO Chao, ZHANG Zi-li, LI Xiang-hua (158)
- On Cultivation of Innovation and Quality Capacity in Course Teaching ..... RAN Wen-jiang (164)
- On Technical Improvement in Experimental Determination of Combustion Heat ..... HUANG Cheng, PENG Jing-dong (169)
- On an Experiment Example for Teaching of Defect Chemistry: Eu and Dy Co-Doped SrAl<sub>2</sub>O<sub>4</sub> with Long  
Afterglow Phosphorescence ..... ZOU Jian, ZHANG Peng, LIU Chang-hua (173)
- On Teaching Renovation of *Environment Impact Assessment*, a Course for Undergraduates  
..... JIANG Zhen-mao, CHEN Yu-cheng (177)