



NNU

NANJING NORMAL UNIVERSITY

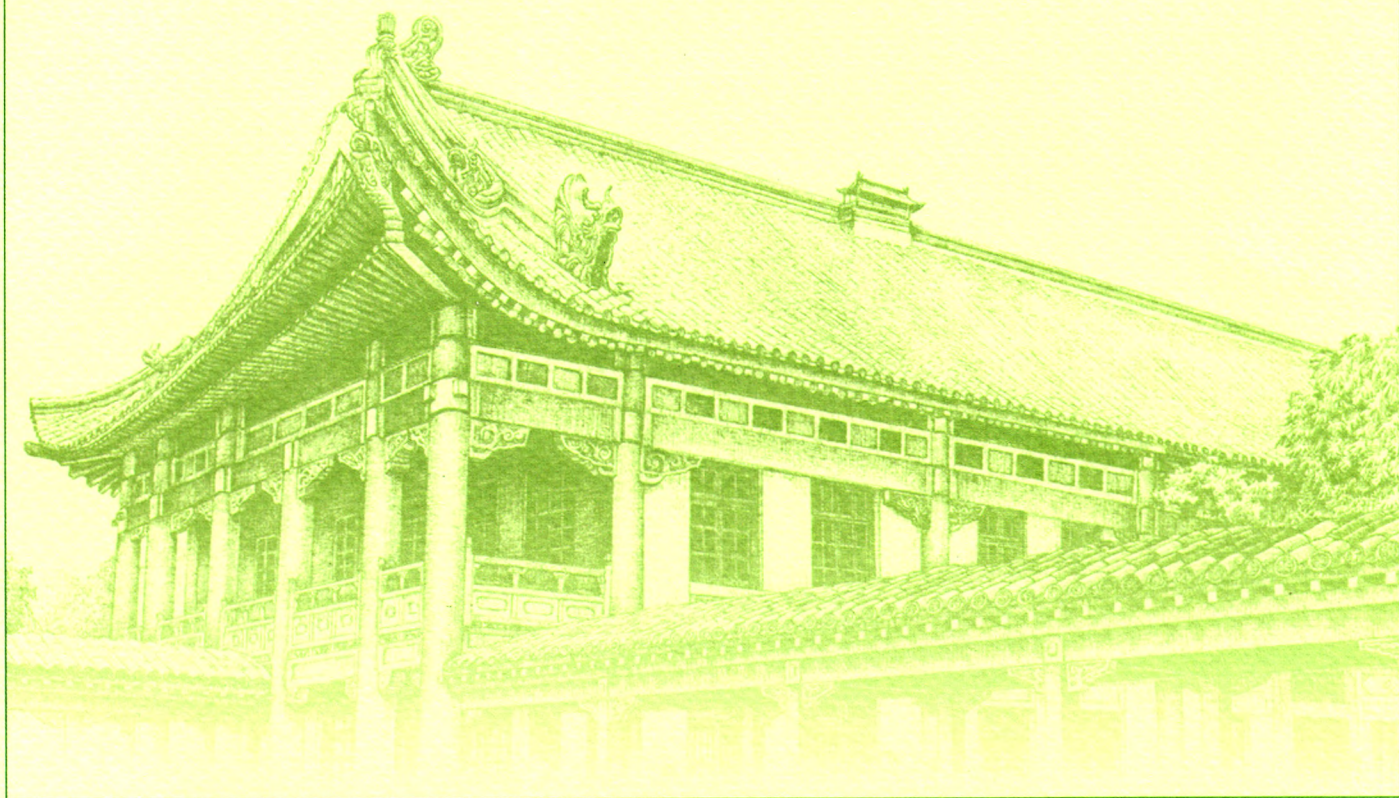
ISSN 1001-4616
CODEN NSXZEN

南京師大學報

自然科学版

JOURNAL
OF
NANJING NORMAL UNIVERSITY
natural science edition

第36卷 | 1
2013



中文综合性科学技术类核心期刊
中国高校优秀科技期刊
江苏省期刊方阵优秀期刊

万方数据

南京师大学报

(自然科学版)

第36卷 第1期(总第133期)

2013年3月

目 次

· 数学 ·

- 最小化损失概率的再保险和投资问题 张昕丽, 孙文瑜 (1)
- 4类特殊图完美匹配的计数 唐保祥, 任 韩 (10)
- 具有一对共轭复不变直线的三次系统的中心判定问题 桑 波 (16)
- 有限水深环境中圆柱与圆柱基座之间激振力的研究 马书燮 (22)
- 椭圆外区域上双曲问题的自然边界元法 鞠 银, 刘三明, 王美珍 (29)

· 物理学 ·

- A2199 中心区域成员星系的光度函数 闫鹏飞, 袁启荣 (37)
- 铁基超导材料 $\text{FeTe}_{0.5}\text{Se}_{0.5}$ 的第一性原理研究 李 健, 茅伟华, 黄桂芹 (43)
- 周期受击陀螺的经典动力学及准能谱统计 杨双波, 刘达克 (48)
- 碳纳米管场发射背阴极式三极结构及其模拟 陆 旭, 狄云松 (54)

· 化学 ·

- 离子色谱法测定 PO_3^{3-} 、 PO_4^{3-} 及其在废水处理中的中控分析 刘 媛, 张艳霞, 王玉萍 (59)
- 新型竹红菌甲素与钒氧离子配合物的制备及光敏性质研究
..... 杨 超, 马 菲, 唐 静, 韩丽娜, 魏少华, 周 林, 周家宏, 沈 健, 葛学峰 (64)

· 生命科学 ·

籼稻不同品种成熟胚的组培发育特性及其超微结构的观察

..... 田亲亲, 阎丽娜, 陆长梅, 李霞, 魏晓东, 方先文 (68)

广东客家人 7 项不对称行为特征的研究

..... 薛虹, 郑连斌, 陆舜华, 包金萍, 王杨, 张晓瑞, 荣文国 (74)

早期咖啡因暴露对成年小鼠苦味适应的影响..... 刘斯斯, 李伟丽, 李国梁, 陈梦玲, 张根华 (79)

姬菇多糖对急性酒精性肝损伤小鼠的肝组织超微结构的影响 陶明煊, 周斌, 郭永月, 赵云霞 (85)

黄颡鱼不同家系生长性能的比较 刘朋朋, 陈校辉, 钟立强, 陈友明, 王明华, 潘建林 (90)

GGPPS 多克隆抗体的制备与鉴定 王江南, 丁尧, 来珊珊, 陈卫波, 余德才, 李朝军, 薛斌 (94)

基于染色体的重组工程系统的改进 樊丹, 石牡丹, 杨运文, 尚广东 (99)

· 地理学 ·

基于 TOPSIS 法的土地利用与区域发展协调性评价——以安徽省宿州市为例

..... 乔伟峰, 顾钧仪, 王亚华 (104)

南京玄武湖景区免费准人体制的效益分析..... 朱明远, 张岚 (111)

基于地图表征认知的儿童移动地图设计方法研究..... 马青, 沈婕, 颜言, 黄敏杰 (116)

DEM 内插邻域自适应确定方法 朱莹, 刘学军, 赵静 (122)

· 计算机科学 ·

基于地理本体的地下管线空间知识表示方法研究 徐寅, 吉根林, 张书亮 (127)

基于证据推理面向生命周期的可信软件评估 傅仰耿, 巩晓婷, 吴英杰 (133)

基于专家可信度和灰色关联度方法的科技期刊评价系统..... 刘志强, 曾红卫 (142)

· 体育学 ·

学生体育学业成绩评定真相的实证研究..... 程传银, 孟凡花 (148)

[期刊基本参数] CN 32-1239/N * 1955 * q * A4 * 156 * zh * P * ¥8.00 * 1150 * 26 * 2013-03

主编:陈国祥;副主编:陆炳新(常务),高洪俊;执行编辑:丁蓉

公开发行

JOURNAL OF NANJING NORMAL UNIVERSITY

(Natural Science Edition)

Vol. 36 No. 1 (Sum. 133)

Mar, 2013

CONTENTS

- Optimal Proportional Reinsurance and Investment with Minimizing Ruin Probability Zhang Xinli, Sun Wenyu (1)
- The Number of Perfect Matchings in Four Types of Particular Graphs Tang Baoxiang, Ren Han (10)
- Center Determination Problem for a Class of Cubic System with a Pair of Invariant Conjugate Imaginary Straight Lines
..... Sang Bo (16)
- Research on Exciting Forces for a Pair of Coaxial Hollow Cylinder and Bottom-Mounted Cylinder Ma Shuxie (22)
- Natural Boundary Element Method for the Hyperbolic Problems in an Exterior Elliptic Domain
..... Ju Yin, Liu Sanming, Wang Meizhen (29)
- Luminosity Functions for Member Galaxies in Central Region of A2199 Yan Pengfei, Yuan Qirong (37)
- First-Principles Study of Iron-Based Superconducting Material $\text{FeTe}_{0.5}\text{Se}_{0.5}$ Li Jian, Mao Weihua, Huang Guiqin (43)
- Classical Dynamics and Quasienergy Spectral Statistics for a Periodically Kicked Free Top Yang Shuangbo, Liu Dake (48)
- Back-Cathode Triode Structure for CNT and Its Simulations Lu Xu, Di Yunsong (54)
- Determination of PO_3^{3-} and PO_4^{3-} by Ion Chromatography and Its Application in Mid-Controlled Analysis of Wastewater Treatment
..... Liu Yuan, Zhang Yanxia, Wang Yuping (59)
- Preparation of a New Hypocrellin A-vanadyl(VO^{2+} -HA) Complex and Its Photosensitive Property Studies
..... Yang Chao, Ma Fei, Tang Jing, Han Lina, Wei Shaohua, Zhou Lin, Zhou Jiahong, Shen Jian, Ge Xuefeng (64)
- Comparison of Ultrastructure of Callus Induction in *Indica* Rice With Different Callus Induction Rates
..... Tian Qinqin, Yan Lina, Lu Changmei, Li Xia, Wei Xiaodong, Fang Xianwen (68)
- Studies on 7 Kinds of Behavioral Traits of Lateral Functional Dominance of Hakka in Guangdong
..... Xue Hong, Zheng Lianbin, Lu Shunhua, Bao Jinping, Wang Yang, Zhang Xiaorui, Rong Wenguo (74)
- The Influence of Bitter Adaptation in Adulthood Induced by Early Postnatal Exposure to Caffeine
..... Liu Sisi, Li Weili, Li Guoliang, Chen Mengling, Zhang Genhua (79)
- Effects of Polysaccharides from *Pleurotus Cornucopiae* on Ultrastructure Change of Acute Alcoholic Injured Liver in Mice
..... Tao Mingxuan, Zhou Bin, Guo Yongyue, Zhao Yunxia (85)
- Comparison of Growth Performance of Different Families of Yellow Catfish(*Pelteobagrus Fulvidraco*)
..... Liu Pengpeng, Chen Xiaohui, Zhong Liqiang, Chen Youming, Wang Minghua, Pan Jianlin (90)
- Preparation and Identification of Polyclonal Antibodies of GGPPS
..... Wang Jiangnan, Ding Yao, Lai Shanshan, Chen Weibo, Yu Decai, Li Chaojun, Xue Bin (94)
- Improvement of the Chromosome-based Recombineering System Fan Dan, Shi Mudan, Yang Yunwen, Shang Guangdong (99)
- Evaluating the Coordination Between Land Use and Regional Development Based on TOPSIS Method—A Case Study of
Suzhou City, Anhui Province Qiao Weifeng, Gu Junyi, Wang Yahua (104)
- Benefit Analysis of the Scenic Free Access System of Nanjing Xuanwu Lake Zhu Mingyuan, Zhang Lan (111)
- Study of Children's Mobile Map Design Methods Based on Cognition of Map Representation
..... Ma Qing, Shen Jie, Yan Yan, Huang Minjie (116)
- An Adaptive Method of Determining DEM Interpolation Neighbors Zhu Ying, Liu Xuejun, Zhao Jing (122)
- Research on Spatial Knowledge Representation Method of Underground Pipeline Based on Geo-ontology
..... Xu Yin, Ji Genlin, Zhang Shuliang (127)
- An Evidential Reasoning Approach for Trustworthy Software Evaluation Under Systems Development Life Cycle
..... Fu Yanggeng, Gong Xiaoting, Wu Yingjie (133)
- Sci-Tech Periodical Evaluation System Based on Expert Credibility and Grey Correlation Degree Method
..... Liu Zhiqiang, Zeng Hongwei (142)
- Empirical Research on the Latent Facts in Grading the Students' Performance in PE Classes
..... Cheng Chuanyin, Meng Fanhua (148)

Chief Editor: Chen Guoxiang, Deputy Chief Editors: Lu Bingxin, Gao Hongjun, Executive Editor: Ding Rong