

CNKI来源期刊 中国中文核心期刊 中国科技核心期刊

ISSN 1000-5471

CN 50-1045/N

西南師大學學報

JOURNAL OF SOUTHWEST CHINA NORMAL UNIVERSITY

自然科学版

NATURAL SCIENCE EDITION

XINAN SHIFAN DAXUE XUEBAO
ZIRAN KEXUE BAN



6

2019

第44卷 第6期

中国·重庆

CHONGQING CHINA



西南师范大学学报

(自然科学版)

第 44 卷 第 6 期

总第 267 期

2019 年 6 月 20 日出版

目 次

• 基础研究 •

- K_3 单群的新刻画 陈梦, 朱华, 刘正龙 (001)
李型单群² $G_2(q)$ 阶分量刻画的简化证明 陈彦恒, 贾松芳, 姜友谊 (005)
Dashnic-Zusmanovich 矩阵线性互补问题误差界的估计 李艳艳, 周平 (010)
完全 K 部图的 Hosoya 指标和 Merrifield-Simmons 指标极图 陈兰 (014)
高阶微分方程边值问题 3 个正解的存在性 达佳丽, 王婷, 张丽娟 (018)
一类临界 Schrödinger 方程的正基态径向解 杜瑶, 唐春雷 (022)
 \mathbb{R}^3 中一类带临界指数的 Kirchhoff 型问题的注记 伍君芬, 李红英 (027)
双体系统中保持 von Neumann 熵的量子信道的结构 劳毅慧, 潘义前 (031)
 $L\omega^-$ 空间 $\omega\beta^-$ 连通性的樊畿定理 陈波 (037)

• 应用研究 •

- 尼罗罗非鱼雌性性腺关键 LncRNA 的鉴定和表达分析 彭锐, 宋凌云, 乔栖梧, 林艳华 (040)
核桃 $JrEFM1$ 转录因子响应逆境及激素的表达模式 马凯恒, 李子仪,
..... 李大培, 杨玉婷, 陈淑雯, 杨桂燕 (046)
大叶茜草精油挥发性物质抑菌及抗氧化活性研究 龚婷, 张敏,
..... 王海珠, 宗学凤, 廖林正 (054)

- 基于 PSR 框架的甘肃省环县耕地生态安全评价 袁 零, 杨庆媛 (060)
- 基于 BSC 法的城市旅游发展质量评价指标体系构建与实证研究
——以广东省 21 地市为例 周程明 (069)
- 基于环绕数约束模型的轮廓识别算法研究 李泗兰, 蔡茂国 (075)
- 城市车联网中紧急消息的快速广播路由研究 马金忠, 王文杰, 田彦山 (084)
- 一种虚拟化网络功能启发式动态编排算法 母泽平 (092)
- 艺体类教师工作满意度影响因素实证研究
——以西部地区为例 颜 芬, 颜叶甜, 龙家勇 (103)
- 基于 SEM 的高校体育教育学生满意度研究 薛 浩, 李 杉, 肖 洪 (110)
- 基于因子分析的世界男子网球运动员单打制胜能力模型研究 牟 柳, 郭立亚, 陈马强 (116)

• 教学研究与改革 •

- 泛函分析课程中有界算子理论的教学探讨 李 嘉, 蔡 静, 周 燕 (123)
- 材料力学课程中内力求解的改进设正法及其教学实践 朱维伟, 冯国建, 杜 俊, 邱志刚 (127)
- 普通高校体育课内外一体化教学模式的优化与实施 李 征 (132)
- 大学生课外自主体育锻炼中“教师介入”的方式及成效 刘尚礼, 吴 璇 (136)

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

Vol. 44 No. 6

Total No. 267

Jun. 20 , 2019

CONTENTS

- New Characterization of Simple K_3 -Groups CHEN Meng, ZHU Hua, LIU Zheng-long (001)
- On Simplified Proof of Order Components Characterization of Lie Type Simple Groups $^2G_2(q)$
..... CHEN Yan-heng, JIA Song-fang, JIANG You-yi (005)
- Error Bounds for Linear Complementarity Problems of Dashnic-Zusmanovich Matrix LI Yan-yan, ZHOU Ping (010)
- Extremal Complete K-Partite Graphs with Respect to Hosoya Index and Merrifield-Simmons Index CHEN Lan (014)
- On Existence of Multiple Solutions for Boundary Value Problem of Higher Differential Equation
..... DA Jia-li, WANG Ting, ZHANG Li-juan (018)
- Positive Ground State Radial Solutions for a Class of Critical Schrödinger Equation DU Yao, TANG Chun-Lei (022)
- Remark on a Class of Kirchhoff-Type Problem with Critical Exponent in \mathbb{R}^3 WU Jun-fen, LI Hong-ying (027)
- Characterization of Quantum Channels Preserving von Neumann Entropy in Bipartite Systems
..... LAO Yi-hui, PAN Yi-qian (031)
- K Fan's Theorem of $\alpha\beta$ -connectedness in $L\omega$ Spaces CHEN Bo (037)
- Identification and Expression Analysis of a Key LncRNA in the Gonads of Female Nile tilapia(*Oreochromis niloticus*)
..... PENG Kun, SONG Ling-yun, QIAO Xi-wu, LIN Yan-hua (040)
- On Expression Patterns of Walnut R1-MYB Transcription Factor *JrEFM1* Responses to Different Stresses and
Plant Hormones MA Kai-heng, LI Zi-yi, LI Da-pei, YANG Yu-ting, CHEN Shu-wen, YANG Gui-yan (046)
- Antibacterial and Antioxidant Activity of Essential Oil from *Rubia Schumanniana Pritzel*
..... GONG Ting, ZHANG Min, WANG Hai-zhu, ZONG Xue-feng, LIAO Lin-zheng (054)
- Ecological Security Assessment of Cultivated Land in Huan County of Gansu Province Based on PSR Framework
..... YUAN Ling, YANG Qing-yuan (060)
- 万方数据

- A Case Study of 21 Cities in Guangdong Province ZHOU Cheng-ming (069)
- On Contour Recognition Algorithm Based on Winding Number Constraint Model LI Si-lan , CAI Mao-guo (075)
- On Fast Broadcasting of Emergency Messages in Urban VANET ... MA Jin-zhong , WANG Wen-jie , TIAN Yan-shan (084)
- On Algorithm of Functions Dynamic Orchestration in Virtualized Network MU Ze-ping (092)
- An Empirical Research of Five Factors Influencing Job Satisfaction of Art and PE Teachers : Evidence from the Western Region of China YAN Fen , YAN Ye-tian , LONG Jia-yong (103)
- On Student Satisfaction of Higher Physical Education Based on Structural Equation Modeling(SEM)
..... LIN Hao , LI Shan , XIAO Hong (110)
- On Winning Capacity Model of World Top Tennis Players in Men's Singles Based on Factor Analysis
..... MOU liu , GUO Li-ya , CHEN Ma-qiang (116)
- A Discussion on Teaching of Bounded Operators in Functional Analysis LI Jia , CAI Jing , ZHOU Yan (123)
- An Improved Method of Positive Assumption for Internal Force Solving in *Mechanics of Materials* Course and Its
Teaching Practice ZHU Wei-wei , FENG Guo-jian , DU Jun , QIU Zhi-gang (127)
- On Construction and Implementation of Teaching Mode of “in and out of Class Integration” in College Physical
Education Curriculum LI Zheng (132)
- On Way and Effect of “Teacher Intervention” in College Students’ Extracurricular Independent Physical Training
..... LIU Shang-li , WU Xuan (136)