

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. 6
第45卷/第6期



西南师范大学学报

(自然科学版)

第 45 卷 第 6 期

总第 279 期

2020 年 6 月 20 日出版

目 次

• 基础研究 •

- S-拟正规嵌入子群与有限群的 p -幂零性 袁 媛, 唐 康, 刘建军 (001)
- 用交换子群的个数刻画 A_5 和 S_5 钱 焱, 陈贵云 (005)
- 半群 $TOP_n(k)$ 的格林(星)关系及富足性 张前滔, 赵 平, 罗永贵 (009)
- 环同态下的与半对偶模相关的 Gorenstein 平坦模的传递性 蔡晓东, 曹 苗, 狄振兴 (016)
- 非线性色散 KdV 方程的精确解 刘冬兵, 林宗兵, 谭千蓉 (021)
- Lax-Milgram 定理的一个推广及其应用 张馨予, 吕 颖 (029)
- 具有平行 Simon 3-形式的局部强凸相对球 李 明, 龚妍甘 (033)
- Stokes 型积分微分方程的稳定化有限元方法分析 许 超, 童新安 (039)

• 应用研究 •

- 基于多尺度金字塔的多光谱图像 Pan-Sharpning 方法 罗 运, 夏晓峰 (045)
- 黑脉羊肚菌固体培养基的制备及其培养条件优化 张保顺, 叶孟婷, 刘 清,
王建康, 罗楠轩, 杨昌庆, 朱昱蓉, 李逐波, 刘元喜 (052)
- 基于文献计量学的棉花黄萎病研究态势分析 沈 烨, 罗 明 (063)

——以重庆洪崖洞为例	杜梦琰，杨晓霞，陈 鹏 (072)
互依自我构念影响心理健康的追踪研究	
——以社会支持为中介的交叉滞后模型	杨 娟，赵 旭，陈开明，江 颖 (080)
社会支持对中学生抗挫折能力的影响：一个链式中介效应模型	周天梅，张权伟，王超颖 (088)
基于改进近邻传播算法的聚类质量评价模型	邹臣嵩，段桂芹，欧阳明星，刘 锋 (097)
排气歧管流固耦合热仿真分析	黄泽好，黄荆荣，唐先龙 (107)
基于扰动后暂态量的戴维南等值参数辨识方法	肖 俊，司徒友，袁炜灯，杨 阳 (113)
省域大型体育场馆竞争力的结构方程模型构建及运用	田 广，牟 柳，郭 敏，洪邦辉 (120)

• 教学研究与改革 •

地方高校机器人工程专业新工科人才培养研究 ...	赵华君，漆新贵，罗天洪，王东强，陈 庆 (127)
合作教学对特殊群体学生一般自我效能感的影响研究	徐 丽，刘 斌 (133)
突发公共卫生事件情境下高校公共体育在线教学机制研究	姜玉红 (141)
高校公共体育网球课教学方法创新性实验研究	欧吉林 (147)
基于创新能力导向的中药药理学实验教学设计研究	陈 怡，徐晓玉，陈 敏，胡昌华 (153)
混合式教学法在药学专业《药理学》教学中的应用	冯艺萍 (157)

JOURNAL OF SOUTHWEST CHINA NORMAL UNIVERSITY (NATURAL SCIENCE EDITION)

Vol. 45 No. 6

Total No. 279

Jun. 20, 2020

CONTENTS

The S-Quasinormally Embedded Subgroups and p -Nilpotency of Finite Groups

..... YUAN Yuan, TANG Kang, LIU Jian-jun (001)

Characterizing A_5 and S_5 by the Numbers of Its Abelian Subgroups QIAN Yan, CHEN Gui-yun (005)

The $(*)$ -Green's Relations and Abundance of Semigroup $TOP_n(k)$

..... ZHANG Qian-tao, ZHAO Ping, LUO Yong-gui (009)

Transfer Properties of Gorenstein Flat Modules with Respect to a Semidualizing Module Along Ring Homomorphisms

..... CAI Xiao-dong, CAO Miao, DI Zhen-xing (016)

On Exact Solution to Nonlinear Dispersion KdV Equation LIU Dong-bing, LIN Zong-bing, TAN Qian-rong (021)

A Generalization and Application of Lax-Milgram Theorem ZHANG Xin-yu, LYU Ying (029)

Locally Strongly Convex Relative Spheres with Parallel Cubic Simon Forms LI Ming, GONG Yan-nian (033)

A Stabilized Finite Element Method for the Integro-Differential Equations of Stokes Type

..... XU Chao, TONG Xin-an (039)

Pan-Sharpening Method for Multispectral Images Based on Multi-scale Pyramids LUO Yun, XIA Xiao-feng (045)

Preparation and Optimization of Solid Media of *Morchella angusticeps* ZHANG Bao-shun, YE Meng-ting,

LIU Qing, WANG Jian-kang, LUO Nan-xuan, YANG Chang-qing, ZHU Yu-rong, LI Zhu-bo, LIU Yuan-xi (052)

On Status and Trends of Cotton Verticillium Wilt Based on Bibliometric Analysis SHEN Ye, LUO Ming (063)

On Spatial and Temporal Characteristics of Online Scenic Spot Based on Baidu Index

——Taking Hongyadong of Chongqing as a Case DU Meng-ting, YANG Xiao-xia, CHEN Peng (072)

On Cross-Lagged Regression Mediated by Social Support : A Longitudinal Study on Effect of Interdependence

Self-Construal on Mental Health YANG Juan, ZHAO Xu, CHEN Kai-ming, JIANG Ying (080)

The Impact of Social Support on Anti-frustration Ability among Middle School Students : A Serial Mediation Effect Model

..... ZHOU Tian-mei, ZHANG Quan-wei, WANG Chao-ying (088)

Cluster Quality Evaluation Model Based on Improved Affinity Propagation Algorithm

..... ZOU Chen-song, DUAN Gui-qin, OUYANG Ming-xing, LIU Feng (097)

On Fluid-Solid Coupling Thermal Simulation Analysis of Exhaust Manifold

..... HUANG Ze-hao, HUANG Jing-rong, TANG Xian-long (107)

Identification Method for Thevenin Equivalent Parameters under Transient Disturbance Data

..... XIAO Jun, SITU You, YUAN Wei-deng, YANG Yang (113)

On Construction and Application of Structural Equation Model for Competitiveness of Provincial Large Sports Venues

..... TIAN Guang, MOU Liu, GUO Min, HONG Bang-hui (120)

On Cultivation of Emerging Engineering Education for Robotics Engineering in Local Universities

..... ZHAO Hua-jun, QI Xin-gui, LUO Tian-hong, WANG Dong-qiang, CHEN Qing (127)

On Influence of Cooperative Teaching on General Self-Efficacy of Special Group Students XU Li, LIU Bin (133)

On Online Teaching Mechanism of Physical Education Courses in University in Context of Emergent Public Health Events

..... JIANG Yu-hong (141)

Innovative Experimental Research on Teaching Method of Public Physical Education Tennis Courses in Colleges and

Universities OU Ji-lin (147)

Experimental Design of *Pharmacology of Traditional Chinese Medicine* Based on Innovation Ability

..... CHEN Yi, XU Xiao-yu, CHEN Min, HU Chang-hua (153)

On Application of Blended Teaching Method in Teaching of *Pharmacology* in Pharmacy FENG Yi-ping (157)