

目 次

· 教材建设与发展专题 ·

- 多视角视域下小学数学教科书使用现状调查——基于全国 88 251 个样本的实证分析 胡睿, 宋乃庆 (001)
- 从教材编写研究去促进教材高质量发展的探析——以西师版小学数学教材编写为例 王宁 (013)
- 中小学数学问题提出教学的目标与原则 任红, 张玲 (022)

· 农业与生命科学 ·

- 延边州农田栽参后地土壤肥力评价 房雪, 杨涵童, 邢金月, 邹杭宇, 程薪竹, 李官浩, 李翔国 (028)
- 甘薯淀粉相关性状变异性的分析 王璐璐, 黄雨, 傅玉凡, 冉海榕, 李佳欣, 陈培涛, 李丰茂 (039)
- 3 种外源物质对于旱胁迫下红椿生理特性的影响 代崇雯, 刘亚敏, 刘玉民, 李峻安, 陈胤好, 吕慧琳 (048)
- 壮药材“滇桂艾纳香”常混淆的基原植物假东风草和东风草的鉴别研究 苏宏娜, 李学学, 孔苑琳, 李莹, 李文兵, 农常东, 李修善, 刘圆 (057)
- 基于网络药理学策略分析青蒿应用于新型冠状病毒感染肺炎的可行性 杜伟, 占敏霞, 吴思澜, 张莉 (069)

· 数理科学与化学 ·

- n -强投射余可解 Gorenstein 平坦模 钟魁晨, 张翠萍 (076)
- $2K_1 \cup I_n$ 的匹配等价图类 高尚, 马海成 (082)
- 一类分数阶奇异椭圆方程无穷多解的存在性 吴卓伦, 商彦英 (089)
- 一类传送带问题解的存在性 鲁雄, 王跃 (096)

· 经济研究 ·

- 水资源—能源约束下的产业结构优化调整研究——以中国 42 部门为例 洪思扬, 程涛 (103)
- 分工深化对农业规模经济的传导机制研究 马雅恬, 王良虎, 王浴青, 王钊 (116)
- 新疆红色旅游资源空间分布及影响因素分析 张宇丹, 李偲, 关苏杭, 陈燕 (128)

· 地球与环境科学 ·

- 1976—2017 年西南地区夏季不同等级降水时空变化特征 薛雨婷, 李谢辉, 王磊, 徐冰 (137)
- 基于 SBAS-InSAR 技术的青岛地铁 1 号线西海岸新区段地表沉降监测与分析 李红梅, 郭在洁, 刘庆施, 党彦 (146)
- 多介质土壤层渗滤系统处理农村生活污水冬季运行效果研究 牛泽南, 鲍安红, 豆玉婷, 徐显, 陈超 (154)

· 心理科学 ·

- 自拍照编辑与女大学生整容意愿的关系：相貌不满意与自我同情的作用 黄泽文, 史攀, 陈旭 (161)
- 线上外貌相关的同伴谈话对女大学生整容意愿的影响：自我客体化和相貌不满意的链式中介作用 陈诚, 黄于飞, 史攀, 方晓娟 (169)
- 手机依赖对大学生学习投入的影响：社会支持和延迟满足的链式中介作用 阳泽, 张竞文, 谭颖, 刘禄森 (178)
- COVID-19 爆发期间居民入睡时间对主观幸福感的影响：有调节的中介模型 高源, 何令, 雷旭, 高笑 (185)

· 工程与信息技术 ·

- 车用锂电池健康状态下快充方法研究综述 张志刚, 张涛, 汤爱华, 姚疆, 蒋依汗 (194)
- 基于 SEIRD-GEOCA 的 COVID-19 疫情时空分布模型构建与情景模拟 荆磊, 刘明皓, 陈春, 曹逸凡, 刘天林 (207)

JOURNAL OF SOUTHWEST UNIVERSITY

(NATURAL SCIENCE EDITION)

Vol. 44 No. 2

Total No. 326

Feb. 20, 2022

CONTENTS

Investigation of the Use of Primary School Mathematics Textbook

——An Empirical Study Based on the 88 251 Teachers and Students

Samples in China HU Rui, SONG Naiqing (001)

On Promoting the High-quality Development of Teaching Materials from the Research of

Textbook Compilation ——Taking the Compilation of Primary School Mathematics

Textbooks of Western Normal Edition as an Example WANG Ling (013)

The Objectives and Principles of Problem Posing Teaching in Primary and

Secondary Schools REN Hong, ZHANG Ling (022)

Evaluation of Soil Fertility after Planting Ginseng in Yanbian Prefecture FANG Xue,

YANG Hantong, XING Jinyue, ZOU Hangyu, CHENG Xinzhu, LI Guanhao, LI Xiangguo (028)

Analysis of the Variability of Starch-related Traits in Sweetpotato WANG Lulu,

HUANG Yu, FU Yufan, RAN Hairong, LI Jiabin, CHEN Peitao, LI Fengmao (039)

Effects of Three Exogenous Substances on the Physiological Characteristics of

Toona ciliata Roem. under Drought Stress DAI Chongwen,

LIU Yamin, LIU Yumin, LI Junan, CHEN Yin hao, LV Huilin (048)

Identification of the Original Plant of *Blumea megacephala* (Randeria) Chang et Tseng

confused with *B. riparia* (Bl.) DC. of Zhuang herbs “Dianguai inaxiang”

..... SU Hongna, LI Xuexue, KONG Yuanlin, LI Ying,

LI Wenbing, NONG Changdong, LI Xiushan, LIU Yuan (057)

Analysis of the Feasibility of Applying *Artemisia annua* L. to COVID-19 Based on

Network Pharmacology Strategy DU Wei, ZHAN Minxia, WU Silan, ZHANG Li (069)

n -Strongly Projectively Coresolved Gorenstein Flat Modules

..... ZHONG Kuichen, ZHANG Cuiping (076)

The Class of Matching Equivalent Graphs of $2K_1 \cup I_n$ GAO Shang, MA Haicheng (082)

Existence of Infinite Solutions for Fractional Singular Elliptic Equations

..... WU Zhuolun, SHANG Yanying (089)

Existence of Solutions for a Transmission Belt Problem	LU Xiong, WANG Yue (096)
Research on the Industrial Structure Optimization under the Constraints of Water Resources and Energy ——Take 42 Industry Sectors in China as an Example	HONG Siyang, CHENG Tao (103)
Research on the Transmission Mechanism of Deepening Division of Labor to Agricultural Economies of Scale	MA Yatian, WANG Lianghu, WANG Yuqing, WANG Zhao (116)
Spatial Distribution Characteristics and Influencing Factors of Red Tourism Resources in Xinjiang	ZHANG Yudan, LI Cai, GUAN Suhang, CHEN Yan (128)
Spatial and Temporal Change Characteristics of Different Grades of Precipitation in Summer in Southwestern China from 1976 to 2017	XUE Yuting, LI Xiehui, WANG Lei, XU Bing (137)
Monitoring of Land Subsidence of Metro Line 1 in the New District of West Coast of Qingdao Based on SBAS-InSAR	LI Hongmei, GUO Zaijie, LIU Qingshi, DANG Yan (146)
Efficiency of Rural Sewage Treatment by Multi-Soil-Layering System in Winter	NIU Zenan, BAO Anhong, DOU Yuting, XU Xian, CHEN Chao (154)
The Relationship between Selfie Editing and Cosmetic Surgery Consideration among Female College Students; The Roles of Facial Dissatisfaction and Self-compassion	HUANG Zewen, SHI Pan, CHEN Xu (161)
The Impact of Online Appearance-related Peer Conversation on Female College Students’ Cosmetic Surgery Consideration; The Serial Mediation of Self-objectification and Facial Dissatisfaction	CHEN Cheng, HUANG Yufei, SHI Pan, FANG Xiaojuan (169)
The Influence of Mobile Phone Dependency on University Students’ Study Engagement; the Chain Intermediary Role of Social Support and Delay of Gratification	YANG Ze, ZHANG Jingwen, TAN Ying, LIU Lusen (178)
The Effect of Residents’ Sleep Time on Subjective Well-Being During the COVID-19 Outbreak; a Moderated Mediating Model	GAO Yuan, HE Ling, LEI Xu, GAO Xiao (185)
Methods of Fast Charging EVs Lithium-ion Power Battery in Healthy State; A Research Review	ZHANG Zhigang, ZHANG Tao, TANG Aihua, YAO Jiang, JIANG Yihan (194)
Spatio-temporal Distribution Model Construction and Scenario Simulation of COVID-19 Epidemic Using SEIRD-GEOCA	JING Lei, LIU Minghao, CHEN Chun, CAO Yifan, LIU Tianlin (207)