

广西科学 2024年第31卷 总目次

第1期(2024年2月)

特邀专稿

- 钩藤的药理作用及临床应用研究进展..... 谭桂玉,万凌云,张坤,彭凤,韦树根(1)
- 基于文献分析的罗汉果产业技术研究进展..... 陈燕蓉,张娜,陆艳,胡婷婷,郭翔,宋敏,李荣德(9)
- 乌天麻外观性状与特征性成分含量相关性研究
- 王尚涛,张悦,郭怡博,张远帆,张铮茹,吴浩忠,张伟,孙志蓉(17)

海洋科学

- 秦皇岛昌黎邻近海域青岛文昌鱼资源调查及大型底栖动物群落特征研究
- 杜小媛,赵升,鲍萌萌,徐东会,李笑语,沙婧婧,周瑞佳,齐衍萍,刘欣禹(28)
- 海南新村港海草床区春、秋季浮游动物粒径结构特征..... 谢福武,王少露,谢海群,庞巧珠,符俊优(40)
- 贵州草海湿地夏季浮游植物群落结构及其与水环境因子的关系
- 李青,张姗,何斌,李望军,邹顺,白晓龙,陈洋,薛晓辉(52)
- 氮、磷限制对球形棕囊藻不同形态细胞生长和多糖产量的影响.....
- 傅云飞,赖俊翔,王英辉,韦福佳,邢政,谢芳,李杰(60)
- 基于钦州湾验潮站 2008—2020 年潮位序列的潮汐特征研究..... 陈旭,翁培耀,陈振华(71)
- 台风期间盐沼消波效应的观测研究——以珠江口芒洲湿地为例
- 孙璐,黄盛,赵军鹏,何薇,周水华,邓伟,陈新平(79)

计算科学

- 基于 UGC 数据的旅游数据挖掘研究进展
- 俸亚特,徐正丽,文益民(87)
- 一种基于局部分类精度的概念漂移数据流分类算法
- 张玲,马士伦,黎利辉,文益民(100)
- 基于 MacBERT 和联合注意力增强网络的物业服务投诉分类方法
- 湛志宏,覃开贤,彭凌华,湛铖(110)
- 基于 Raptor 编码的多输入多输出光通信系统设计
- 郝兵,吴迪,萧威(119)

濒危植物

- 无柄醉鱼草与大叶醉鱼草的遗传多样性解析
- 吴诺,陈高,申仕康,葛佳(126)
- 珍稀濒危植物石山苏铁的 SSR 引物设计和遗传多样性分析
- 唐健民,陈泰国,邹蓉,盘波,韦霄,韦发南(139)

基于 MaxEnt 模型的广东省红豆属植物潜在适生区研究
 姜垒, 胡喻华, 吴玉芬, 梁键明, 蒋庆莲, 张铭, 谭淦, 何春梅, 韦霄, 施诗, 唐光大(149)
 中国特有植物水松的主要营养成分分析 徐坚旺, 唐健民, 邹蓉, 韦霄, 蒋运生, 韦记青(167)

特邀栏目

鱼用催产激素在倒刺鲃属(*Spinibarbus*)鱼类人工繁殖中的应用进展
 廖经球, 李鹏飞, 王剑, 黄静, 何琼玉, 莫昌平, 庞海(175)
 前列腺穿刺活检术的研究进展 谭熙, 周立权(182)
 一株脱氮毕赤酵母 Y-4 的分离鉴定及其氨氮降解性能
 雷可, 池越, 毛俊儒, 陆兵, 潘世优, 黎贞崇, 韦宇拓(188)
 Des(rhamnosyl) verbascoside 抗 HBV 作用的定量蛋白质组学研究
 邓洁, 赵童诗尧, 牟俊飞, 梁成钦, 周先丽(197)

第 2 期(2024 年 4 月)

海洋科学

海岸带动态演变与韧性研究进展 朱钰, 周赢涛, 薛玉龙, 冯曦, 冯卫兵(205)
 海岸带城市蓝绿空间碳汇基础设施网络分析——以广西北部湾为例 李萱, 龚苑红, 覃盟琳, 朱梓铭(213)
 广西涠洲岛海域浮游植物群落结构季节变化特征及环境影响因素
 林佳, 林海英, 骆鑫, 郭梅修, 黎明民, 庞碧剑, 黄雄良, 王宙, 蓝文陆(224)
 水温波动对泰来草、圆叶丝粉草生理及生长特性的影响 谭蓉蓉, 史云峰, 赵牧秋, 王盈棋, 刘明中(237)
 微电流对大鹏湾造礁石珊瑚种苗存活率及生长状况的影响
 张树乐, 杨小东, 朱鸣, 陈伯贵, 谢子强, 郑惠娜, 肖宝华(248)

水产渔业

贵州习水国家级自然保护区大型底栖动物群落结构及水质评价
 陈振林, 杨卫诚, 罗康, 熊玲, 杨涛, 黄玉杰, 张高发(258)
 广西地区中华圆田螺不同地理种群遗传多样性分析
 周康奇, 李育森, 林勇, 彭金霞, 陈秀荔, 覃俊奇, 陈忠, 黄姻, 张彩群, 杜雪松, 何莘萍, 韦嫔媛, 潘贤辉(269)
 封闭型水体中养殖密度对罗非鱼生长性能和水质的影响
 陈丽婷, 吴剑峰, 陶志明, 严欣, 郭忠宝, 罗永巨, 李满园, 肖俊, 梁军能, 黄峥(279)
 不同季节巴马拟缨鱼性腺发育特征 韦云勇, 程光平, 麻艳群, 董升辉, 司楠, 古昌辉, 程蔓(287)
 长江上游保护区重庆段鱼类重要栖息地水环境及鱼类分布特征研究 李燕, 李锋, 张闯, 王维, 段聪(295)

计算科学

- 基于 5G 毫米波协作通信的小单元无线能量信标优化部署策略 卢明好,李陶深,吕品(302)
- 多策略集成的改进技能优化算法及应用 薛朝改,雒俊峰,曹武军(311)
- 基于自监督信息增强的图表示学习 袁立宁,文竹,冯文刚,刘钊(323)
- 基于多头指针的司法事件检测方法 张小丽,黄辉,黄瑞章,秦永彬,陈艳平(335)

特邀栏目

- 广西不同林龄马尾松人工林生态系统碳储量及其分配格局 李玉凤,莫燕华,秦佳双,马姜明(346)
- 农村生活污水生物-生态组合工艺净化效果及长效管理研究
..... 诸超超,金秋,陈菁,杨盛赞,彭鑫鑫,沙玥,李伟(357)
- 基于抗炎和促红细胞生成作用的九味补血口服液改善血虚证小鼠造血功能的机制研究
..... 韦洁,蓝晓东,朱涪翠,蒙珍,何飞,彭富全,黄若干(367)
- 消瘤藤总香豆素诱导结直肠癌细胞铁死亡的作用研究 黎骊,邓聿胤,吕纪华,陆国寿,刘瑛(380)
- 前庭刺激对自闭症谱系障碍儿童语言障碍的疗效分析 卢川,龙耀斌(389)
- 数字经济背景下的数据交易风险与合规治理研究 梁燕妮(395)

第 3 期(2024 年 6 月)

森林生态

- 近自然经营对马尾松人工林生态系统碳储量的影响 邹丰虎,柴宗政(405)
- 复层异龄混交改造对杉木人工林土壤磷组分和转化的影响
..... 李昌航,高冠女,黄海梅,李佳君,肖纳,廖树寿,黄雪蔓,招礼军,尤业明(416)
- 马尾松人工林异龄混交改造对土壤团聚体酶活性及酶化学计量比的影响
..... 黄海梅,颜金柳,李佳君,向明珠,李昌航,廖树寿,黄雪蔓,尤业明(427)
- 马尾松与不同阔叶树种混交种植对土壤微生物群落组成和多样性特征的影响
..... 李金凤,王晖,黄海梅,童秀丽,王健,廖玉丽,黄雪蔓,明安刚,尤业明(439)

生物科学

- 五爪金龙叶绿体基因组特征分析 黄琼林,陈依虹,叶晓霞,谭靖怡,梁秋婷,吴民华(451)
- ubr1* 基因缺失对粟酒裂殖酵母有丝分裂动力学的影响 张丁,段江波,潘凤,阮渝涵,丁祥,侯怡铃(459)
- 褐角苔遗传转化体系的建立 黄丹,彭涛,姜山,王顺莉,李旭强,马怀富,盛福源(469)
- 一株耐高氨氮菌株的筛选及脱氮性能研究 刘庆宇,杨雯婷,盘兆慧,韦爽,潘世优,韦宇拓(478)

民族医药

- 山银花花色形成研究进展 吕玲玲,鲁杏欢,李立云(486)

广山楂叶水提取物的急性毒性和遗传毒性…………… 叶志青,卢安根,黎颖,叶质萍,张洁宏,黎德全,黄维静(492)

土茯苓苗期炭疽病病原菌的鉴定、生物学特性及防治药剂筛选……………

…………… 邓力,苏远玉,徐国梁,刘婧,张殷蕾,宋利沙,廖国健,冯世鑫,张坤,梁文静,万凌云,韦树根(500)

环境科学

市政污泥陶粒对 Cd²⁺ 吸附特性的影响 …………… 陈冠海,宋书巧,曾海琪(513)

城市不同环境空间下 PM_{2.5} 及表层土壤细菌群落结构差异性研究 ……………

…………… 叶子葳,文建辉,卢德林,林清钰,陈春强,霍强,龙腾发(523)

岩溶区峡谷型水库枯水期表层水体有机碳浓度分布特征 ……………

…………… 韦宗校,杨柳英,焦树林,刘炜,李银久,冯椰林,邵雨潇,李娟(532)

基于组合植被指数的红树林树种遥感分类与生物碳储量变化研究 …………… 唐亮东,张威,邓淞文,王英辉(541)

万宁小海海域重金属分布特征研究及其风险评价…………… 庞巧珠,陈晓慧,谢海群,梁计林,邢孔敏(554)

北部湾表层沉积物中重金属与放射性元素/核素的分布、风险、源解析与环境研究启示……………

…………… 许泽钺,刘鳧卿,何贤文,周花珑,黄美琴,管永精,何华,刘志勇,郭凯行,卢颖,何估蔓,韦湫阳(565)

耦合 VOR 和 InVEST 模型的广西北部湾经济区生态系统健康时空变化研究 ……………

…………… 窦世卿,张楠,刘丹丹,靖娟利,徐勇,高海宽(581)

特邀栏目

增强植物光合作用复合型稀土转光材料的制备及发光性能…………… 王研,李翠翠,杨曦林,程立春,周丽娜(593)

海洋石油单点系泊系统外检测技术及工程应用 …………… 刘晓燕,罗耀安,黄建福,房立祥(604)

第 4 期(2024 年 8 月)

新污染物与生态环境安全

新污染物环境生态效应研究热点 …………… 王晓慧,蒲高忠(613)

淡水生态环境中微塑料研究热点与进展的可视化分析 …… 李秀林,王晓飞,王晓慧,李海翔,杨稳,蒲高忠(622)

郑州市重点行业 VOCs 治理效率与减排潜力研究 ……………

…………… 孙鹏,罗艺琳,刘洋,李方,付广宇,徐媛倩,曹佳慧,岳利波,曹霞(635)

许昌市典型污染过程 VOCs 污染特征与臭氧生成敏感性研究 ……………

…………… 徐媛倩,付广宇,孙鹏,罗艺琳,曹佳慧,来子淳,孙航航,吕健翔,王杰,曹霞(645)

基于定量构效关系模型的有机发光材料接触和吸入危害性评估 ……………

…………… 陈锐烽,冯晶晶,莫凌,蒋倩文,黄亮亮,廖建雄(657)

纳米 ZnO 影响下丹江口水库消落区锈病对枯落叶分解及养分释放的影响……………

…………… 杨锦霞,张成,汪小溪,周俊容,张涵琪,鲍文华,叶如梦,田锴(665)

生物科学

- 百香果茎基腐病的研究进展..... 罗超,陈艳露,房文霞,吴小刚,李世东,郭荣君,汪斌(676)
- 黄曲霉果胶酶的酶学特性及其在白玉兰落叶水解中的应用
..... 洗亮,秦艳,蒋永强,陶平,刘思伽,李龙婷,宁健,李亿,梁戈,王青艳(688)
- 不同林分类型土壤表层微生物群落变化特征
..... 何昕诺,覃云斌,马姜明,孙晨茜,丁苏雅,潘于,黄慧欣,潘心茹,姜雪芳,高宇凡(698)
- 基于响应面法的海南风吹楠总黄酮提取工艺优化及抗氧化活性研究 徐坚旺,韦霄,唐健民,邹蓉(712)
- 光环境对鱼腥草开花、生长与光合特性的影响 赵帅歌,刘宝玉,王满莲,唐辉,聂成,张永凯,郑玉梅(723)
- 耐热微泡菌 *Microbulbifer thermotolerans* YLW106 几丁质酶的基因克隆表达及酶学性质分析
..... 欧阳玉滢,林梅,王巧贞,卢波,吕心悦,黄俊,周蓉,梁士颀,覃秋容,王青艳,黄庶识,廖思明(731)

海洋科学

- 后水湾深水网箱养殖区水环境的时空变化和营养状态分析..... 庞巧珠,陈丹丹,陈晓慧,谢海群,梁计林(742)
- 基于微卫星标记的小花老鼠簕遗传多样性研究..... 高霆炜,童立豪,钟云旭,阎冰,陈思婷(754)
- 基于锈斑蚜简化基因组数据的微卫星 DNA 标记开发 唐棣,杨明秋,邹雄,刘洪涛(763)

特邀栏目

- 基于 VMD-GRAU 的短期风电功率预测 谢金财,于千城,王之赐,胡智勇,于绪龙,王澳强(773)
- 基于机器学习的静脉溶栓时间窗外急性缺血性脑卒中患者短期预后模型建立与验证
..... 周辉,冯兵,刘旭日,邹勇,唐慧,黄钦彬,陈庭军,邹东华(781)
- 硫铁矿/菱铁矿复合矿源自养反硝化脱氮除磷性能 李金城,陆祖贤,井含佳,刘晨,王怡可(788)
- 基于安全能量效率的全双工异构无线携能通信网络波束成形设计..... 朱晴,李陶深,吕品(797)
- 不同树种混交模式对南亚热带人工林细根生物量的影响
..... 王帅康,栾军伟,王树梅,尤业明,贺明霞,黄海梅,黄雪蔓(808)

第 5 期(2024 年 10 月)

医疗场景

- 肢体康复机器人技术与发展趋势 高学山,刘开源,赵鹏,苗明达(823)
- 基于注意力机制的毫米波雷达 ECG 信号反演算法研究 段伟,黄廷磊,刘杰,韩啸宇(833)
- 一种基于去噪自编码器融合相似度的药物-靶标相互作用预测方法 林艳梅,曹爱清,彭昱忠(842)
- 高血压患者管理多维度“健康指数”构建及应用研究..... 李虎,甘昕艳,黄秀文(854)
- 基于深度神经网络的阿尔茨海默病早期诊断算法..... 刘星毅(864)

生物信息

- 图自监督学习综述..... 胡荣耀,杨思琪,马晓桐,黄金诚,朱晓峰(873)
- 空间转录组定位算法及速度优化 唐坚恒,张姿(892)
- 基于模糊逻辑 COOT 优化 K 调和均值的数据聚类算法 戴峦岳,梁宵月,王帅,王震坡(900)
- MSViT:融合多尺度特征的轻量化图像分类混合模型
..... 覃晓,彭磊,廖惠仙,元昌安,赵剑波,邓超,钱泉梅,卢虹妃,龚远旭(912)
- 基于伽玛-泊松分布和图正则化的单细胞非负矩阵分解算法 龙法宁,潘伟权,苏秀秀(925)

生产场景

- 基于多尺度特征提取的密集型小目标检测网络
元昌安,王文姬,黄豪杰,覃正优,张金勇,廖惠仙,覃晓,李小森,李永玉,符云琴,谭思婧,钱泉梅,吴琨生(939)
- 一种巡检无人机航迹自适应规划算法..... 石成钰,王天骄,张莹莹,顾悦昕,冯笑(954)
- 一种用于不平衡数据的新型网络异常流量检测方法 金正哈,李建彬,李敬豪,李何筱(966)
- 基于 WAE 主题模型和社会网络的农产品在线交互研究——以“沙糖桔吧”为例
..... 岳芳,高子雅,樊茂瑞,张发明,肖吉军(976)

交通场景

- GCTR:粒度统一的跨模态文本行人检索网络模型
..... 覃晓,张金勇,龚远旭,吴琨生,黄豪杰,淳鑫,元昌安(988)
- 基于特征选择和聚类的动态选择性集成模型 徐雨芯,曹建军,王保卫,翁年凤,顾楚梅(1002)
- 一种基于人体姿态的新型中国交警手势识别网络..... 覃晓,李永玉,吴琨生,元昌安,谭思婧,刘善锐(1011)
- 面向巡检任务的无人机三维航迹自适应规划算法 赵召娜,李丽燕,张云霞,范莹,冯笑(1025)
- 基于无需校准激光雷达曲线与 RGB-D 图像的数据融合方法 徐正丽,肖素芳,杨明浩(1038)
- 基于混合策略改进阿奎拉鹰优化算法的多目标红外 WSN 节点覆盖优化 黄华,张苗(1049)

第 6 期(2024 年 12 月)

综述

- 漓江流域景观资源可持续利用研究现状与展望 郑文俊,陈颖,洪子臻(1063)

生物多样性及其保育

- 漓江流域古树名木资源组成及空间分布特征..... 康秀琴,孟皓轩,卢家锋,朱金贵(1076)
- 广西猫儿山国家级自然保护区蝴蝶群落结构与多样性
..... 姚维,周善义,陈志林,唐祺玲,周雪婷,黄婉玲,汪国海,韦新葵,周岐海(1089)
- 桂林市环城水系不同生境自生植物物种组成及多样性研究 卢家锋,康秀琴,孟皓轩(1101)

桂林会仙喀斯特湿地不同生长型植物叶片化学计量及其与系统发育的关系
..... 李文君,许雪晴,周雪雯,吕仕洪,白坤栋(1112)

漓江流域常见植物叶片非结构性碳水化合物动态及其生态适应性
..... 钟艺倩,王斌,吴森锐,杨美雪,徐泽帅,陶旺兰,李健星,赵弘明,李先琨(1121)

国土景观与生态修复

漓江流域景观生态安全评价及其影响因素分析..... 何文,余玲,王金叶,姚月锋,李宁,黄金君(1132)

漓江流域产业结构优化与土地集约利用协调性研究 刘胜峰,赵双飞,曾薇,冯达,阳胜男(1144)

基于 InVEST 模型的漓江流域景观格局及生境质量时空演变分析
..... 胡露瑶,代俊峰,郑文俊,齐姗姗,莫建英(1156)

基于生态韧性的国土空间生态修复策略探索——以漓江流域为例
..... 陆小钢,魏书威,梁振然,刘芳芳,张婧(1168)

旅游规划与优化设计

基于多源数据和最小累积阻力模型的漓江风景道选线研究 梅骏翔,汤焯,何莹洁,孙雅云,郑文俊(1178)

漓江风景名胜区自助游游憩网络结构演化特征与驱动机制研究..... 白焜,王秀秀,徐孟远,王苑宇(1188)

人文景观与保护开发

漓江流域乡村生态系统文化服务感知与评价 蒋斯怡,郑文俊,李秀群(1207)

基于本体-区域尺度的漓江流域传统村落价值评价 洪子臻,郑文俊,胡露瑶(1220)

桂林喀斯特世界自然遗产地峰丛区传统村落景观演变与植物景观特征分析
..... 吴森锐,杨美雪,钟艺倩,李宁鑫,徐泽帅,王子君,向悟生,郑文俊,李先琨(1233)

CONTENTS OF VOLUME 31, 2024 GUANGXI SCIENCES

No. 1 (February 2024)

Special Issue

- Research Progress of Pharmacological Action and Clinical Application of *Uncaria rhynchophylla*
..... TAN Guiyu, WAN Lingyun, ZHANG Kun, PENG Feng, WEI Shugen(1)
- Research Progress of *Siraitia grosvenorii* Industrial Technology Based on Literature Analysis
..... CHEN Yanrong, ZHANG Na, LU Yan, HU Tingting, GUO Xiang, SONG Min, LI Rongde(9)
- Study on the Correlation between the Appearance Characteristics and Content of Characteristic Components
of *Gastrodia elata* f. *glauca* WANG Shangtao, ZHANG Yue,
GUO Yibo, ZHANG Yuanfan, ZHANG Zhengru, WU Haozhong, ZHANG Wei, SUN Zhirong(17)

Marine Sciences

- Investigation of *Branchiostoma japonicum* Resources and Community Characteristics of Macrobenthos in
Changli Adjacent Sea Area, Qinhuangdao DU Xiaoyuan, ZHAO Sheng,
BAO Mengmeng, XU Donghui, LI Xiaoyu, SHA Jingjing, ZHOU Ruijia, QI Yanping, LIU Xinyu(28)
- Particle Size Structure Characteristics of Zooplankton during Spring and Autumn in the Seagrass Areas of
Xincun Port, Hainan Island XIE Fuwu, WANG Shaolu, XIE Haiqun, PANG Qiaozhu, FU Junyou(40)
- Summer Phytoplankton Community Characteristics and Its Relationship with Water Environmental Factors
in Caohai Wetland, Guizhou Province
LI Qing, ZHANG Shan, HE Bin, LI Wangjun, ZOU Shun, BAI Xiaolong, CHEN Yang, XUE Xiaohui(52)
- Effects on Cell Growth and Polysaccharide Production in Different Morphologic Cells of *Phaeocystis globosa*
Under N or P Limitation
..... FU Yunfei, LAI Junxiang, WANG Yinghui, WEI Fujia, XING Zheng, XIE Fang, LI Jie(60)
- Research on Tidal Characteristics Based on the Tidal Level Sequence of the Qinzhou Bay Tide Station from
2008 to 2020 CHEN Xu, WENG Peiyao, CHEN Zhenhua(71)
- Observational Study on Wave Attenuation Effect of Salt Marsh during Typhoon—a Case Study of Mangzhou
Wetland in Zhujiang River Estuary
SUN Lu, HUANG Sheng, ZHAO Junpeng, HE Wei, ZHOU Shuihua, DENG Wei, CHEN Xinping(79)

Computational Sciences

- Research Progress in Tourism Data Mining Based on UGC Data
..... FENG Yate, XU Zhengli, WEN Yimin(87)
- A Concept Drift Data Stream Classification Algorithm Based on Local Classification Accuracy
..... ZHANG Ling, MA Shilun, LI Lihui, WEN Yimin(100)

Classification Method of Property Service Complaints Based on MacBERT and Joint Attention Enhancement Networks ZHAN Zhihong, QIN Kaixian, PENG Linghua, ZHAN Cheng(110)

Design of Multiple Input Multiple Output Visible Light Communication System Based on Raptor Coding HAO Bing, WU Di, XIAO Wei(119)

Endangered Plants

Analysis of Genetic Diversity of *Buddleja sessilifolia* and *B. davidii* WU Nuo, CHEN Gao, SHEN Shikang, GE Jia(126)

SSR Primer Design and Genetic Diversity Analysis of the Rare and Endangered Plant *Cycas sexseminifera* TANG Jianmin, CHEN Taigu, ZOU Rong, PAN Bo, WEI Xiao, WEI Fanan(139)

Study on the Potential Suitable Area of *Ormosia* in Guangdong Province Based on the MaxEnt Model JIANG Lei, HU Yuhua, WU Yufen, LIANG Jianming, JIANG Qinglian, ZHANG Ming, TAN Gan, HE Chunmei, WEI Xiao, SHI Shi, TANG Guangda(149)

Analysis of the Main Nutrient Components of the Chinese Endemic Plant *Glyptostrobus pensilis* XU Jianwang, TANG Jianmin, ZOU Rong, WEI Xiao, JIANG Yunsheng, WEI Jiqing(167)

Special Columns

Progresses in the Application of Oxytocin for Fish in the Artificial Reproduction of *Spinibarbus* Fish LIAO Jingqiu, LI Pengfei, WANG Jian, HUANG Jing, HE Qiongyu, MO Changping, PANG Hai(175)

Research Progress of Prostate Biopsy TAN Xi, ZHOU Liquan(182)

Isolation and Identification of a Denitrifying *Pichia* sp. Y-4 and Its Ammonia Nitrogen Degradation Performance LEI Ke, CHI Yue, MAO Junru, LU Bing, PAN Shiyu, LI Zhenchong, WEI Yutuo(188)

Quantitative Proteomics Study of Anti-HBV Effects of Des(rhamnosyl) verbascoside DENG Jie, ZHAO Tongshiyao, MOU Junfei, LIANG Chengqin, ZHOU Xianli(197)

No. 2(April 2024)

Marine Sciences

Research Progress on Dynamic Evolution and Resilience of Coastal Zones ZHU Yu, ZHOU Yingtao, XUE Yulong, FENG Xi, FENG Weibing(205)

Analysis of Carbon Sink Infrastructure Network for Blue-Green Space in Coastal Zone Cities: Take Beibu Gulf of Guangxi as an Example LI Xuan, GONG Yuanhong, QIN Menglin, ZHU Ziming(213)

Seasonal Variation Characteristics of Phytoplankton Community Structure and Environmental Impact Factors in the Weizhou Island, Guangxi LIN Jia, LIN Haiying, LUO Xin, GUO Meixiu, LI Mingmin, PANG Bijian, HUANG Xiongliang, WANG Zhou, LAN Wenlu(224)

Effect of Water Temperature Fluctuation on the Physiology and Growth Characteristics of *Thalassia hemprichii* and *Cymodocea rotundata* SHAN Rongrong, SHI Yunfeng, ZHAO Muqiu, WANG Yingqi, LIU Mingzhong(237)

Effects of Micro-current on the Survival Rate and Growth Status of Coral Reef-building Coral Seedlings in Dapeng Bay

ZHANG Shule, YANG Xiaodong, ZHU Ming, CHEN Bogui, XIE Ziqiang, ZHENG Huina, XIAO Baohua(248)

Aquatic Fisheries

Macroinvertebrate Community Structure and Water Quality Evaluation in Xishui National Nature Reserve of Guizhou Province

CHEN Zhenlin, YANG Weicheng, LUO Kang, XIONG Ling, YANG Tao, HUANG Yujie, ZHANG Gaofa(258)

Genetic Diversity Analysis of Different Geographical Populations of *Cipangopaludina cathayensis* in Guangxi Region

ZHOU Kangqi, LI Yusen, LIN Yong, PENG Jinxia, CHEN Xiuli, QIN Junqi, CHEN Zhong, HUANG Yin, ZHANG Caiqun, DU Xuesong, HE Pingping, WEI Binyuan, PAN Xianhui(269)

Effects of Breeding Density of *Oreochromis mossambicus* on Growth Performance and Water Quality in Confined Water

CHEN Liting, WU Jianfeng, TAO Zhiming, YAN Xin, GUO Zhongbao, LUO Yongju, LI Manyuan, XIAO Jun, LIANG Junneng, HUANG Zheng(279)

Characteristics of Gonadal Development of *Pseudocrossocheilus bamaensis* in Different Seasons

WEI Yunyong, CHENG Guangping, MA Yanqun, DONG Shenghui, SI Nan, GU Changhui, CHENG Man(287)

Study on the Water Environment and Fish Distribution Characteristics of Fish Important Habitat in Chongqing Section of the Upper Reaches of Yangtze River Reserve

LI Yan, LI Feng, ZHANG Chuang, WANG Wei, DUAN Cong(295)

Computational Sciences

Optimization Deployed Strategy of Wireless Power Beacon Based on 5G Millimeter Wave Cooperative Communication Small Cell

LU Mingyu, LI Taoshen, LÜ Pin(302)

Improved Skill Optimization Algorithm Based on Multi-strategy Integration and Its Application

XUE Chaogai, LUO Junfeng, CAO Wujun(311)

Graph Representation Learning Enhanced by Self-supervised Information

YUAN Lining, WEN Zhu, FENG Wengang, LIU Zhao(323)

Judicial Event Detection Method Based on Multi-head Pointer

ZHANG Xiaoli, HUANG Hui, HUANG Ruizhang, QIN Yongbin, CHEN Yanping(335)

Special Columns

Carbon Storage and Distribution Pattern of *Pinus massoniana* Plantations Ecosystem in Different Forest

Ages in Guangxi

LI Yufeng, MO Yanhua, QIN Jiashuang, MA Jiangming(346)

Study on Purification Effect and Long-Term Management of Bio-Ecological Combined Process for Rural Do-

mestic Sewage
..... ZHU Chaochao, JIN qiu, CHEN Jing, YANG Shengyun, PENG Xinxin, SHA Yue, LI Wei(357)

Mechanism Study of Jiuwei Buxue Oral Liquid on Improving Hematopoietic Function in Blood Deficiency Mice Based on Anti-inflammation and Erythropoiesis Effects
..... WEI Jie, LAN Xiaodong, ZHU Fucui, MENG Zhen, HE Fei, PENG Fuquan, HUANG Ruogan(367)

Study on the Effect of Total Coumarins from *Pileostegia tomentella* Inducing Ferroptosis of Colorectal Cancer Cells
..... LI Li, DENG Yuyin, LÜ Jihua, LU Guoshou, LIU Ying(380)

Effect of Vestibular Stimulation on Speech Disorders in Children with Autism Spectrum Disorder
..... LU Chuan, LONG Yaobin(389)

Research on Data Trading Risks and Compliance Governance in the Context of Digital Economy
..... LIANG Yanni(395)

No. 3(June 2024)

Forest Ecology

Effects of Close-to-Nature Management on Carbon Storage of *Pinus massoniana* Plantation Ecosystem ...
..... ZOU Fenghu, CHAI Zongzheng(405)

Effects of Multi-layer Mixed-age Modification on Soil Phosphorus Components and Transformation in *Cunninghamia lanceolata* Plantation
..... LI Changhang, GAO Guannü, HUANG Haimei, LI Jiajun, XIAO Na, LIAO Shushou, HUANG Xueman, ZHAO Lijun, YOU Yeming(416)

Effects of Introducing Other Tree Species of Different Ages into *Pinus massoniana* Plantation on Activities and Stoichiometric Ratios of Enzymes Associated with Soil Aggregates
..... HUANG Haimei, YAN Jinliu, LI Jiajun, XIANG Mingzhu, LI Changhang, LIAO Shushou, HUANG Xueman, YOU Yeming(427)

Effects of Mixed Plantation of *Pinus massoniana* with Different Broadleaf Species on Soil Microbial Community Composition and Diversity
..... LI Jinfeng, WANG Hui, HUANG Haimei, TONG Xiuli, WANG Jian, LIAO Yuli, HUANG Xueman, MING An'gang, YOU Yeming(439)

Biological Sciences

Characteristics of the Chloroplast Genome of *Ipomoea cairica*
..... HUANG Qionglin, CHEN Yihong, YE Xiaoxia, TAN Jingyi, LIANG Qiuting, WU Minhua(451)

Effect of *ubr1* Deletion on Mitotic Dynamics in *Schizosaccharomyces pombe*
..... ZHANG Ding, DUAN Jiangbo, PAN Feng, RUAN Yuhan, DING Xiang, HOU Yiling(459)

Establishment of a Genetic Transformation System for *Folioceros fuciformis*
..... HUANG Dan, PENG Tao, JIANG Shan, WANG Shunli, LI Xuqiang, MA Huaifu, SHENG Fuyuan(469)

Screening and Denitrification Performance of a Highly Ammonia Nitrogen-Tolerant Strain
..... LIU Qingyu, YANG Wenting, PAN Zhaohui, WEI Shuang, PAN Shiyong, WEI Yutuo(478)

Ethnomedicine

- Research Progress in the Flower Color Formation of Lonicerae Flos
..... LÜ Lingling, LU Xinghuan, LI Liyun(486)
- Acute Toxicity and Genotoxicity of Water Extract from *Malus doumeri* (Bois.) A. Chev. Leaves
..... YE Zhiqing, LU Angen, LI Ying, YE Zhiping, ZHANG Jiehong, LI Dequan, HUANG Weijing(492)
- Identification, Biological Characterization and Fungicide Screening for Anthracnose Pathogen in the Seedling Stage of *Smilax glabra* DENG Li, SU Yuanyu, XU Guoliang, LIU Jing, ZHANG Yinlei, SONG Lisha, LIAO Guojian, FENG Shixin, ZHANG Kun, LIANG Wenjing, WAN Lingyun, WEI Shugen(500)

Environmental Sciences

- Effect of Municipal Sludge Ceramsite on Cd²⁺ Adsorption Characteristics
..... CHEN Guanhai, SONG Shuqiao, ZENG Haiqi(513)
- Comparison on PM_{2.5} and Surface Soil Bacterial Community Structure among Different Urban Environmental Spaces
..... YE Ziwei, WEN Jianhui, LU Delin, LIN Qingyu, CHEN Chunqiang, HUO Qiang, LONG Tengfa(523)
- Distribution Characteristics of Organic Carbon Concentrations in Upper Layer of Canyon-type Reservoirs in Karst Areas During Dry Season
..... WEI Zongxiao, YANG Liuying, JIAO Shulin, LIU Wei, LI Yinjiu, FENG Yelin, SHAO Yuxiao, LI Juan(532)
- Identification and Carbon Stock Change of Mangrove Species Based on Combined Vegetation Indices
..... TANG Liangdong, ZHANG Wei, DENG Songwen, WANG Yinghui(541)
- Distribution Characteristics and Risk Assessment of Heavy Metals in Wanning Xiaohai
..... PANG Qiaozhu, CHEN Xiaohui, XIE Haiqun, LIANG Jilin, XING Kongmin(554)
- Distribution, Risk, Source Apportionment, and Implications for Environmental Research of Heavy Metals and Radioactive Elements/Nuclides in the Surface Sediments of the Beibu Gulf
..... XU Zeyue, LIU Manqing, HE Xianwen, ZHOU Hualong, HUANG Meiqin, GUAN Yongjing, HE Hua, LIU Zhiyong, GUO Kaixing, LU Ying, HE Jiman, WEI Qiuyang(565)
- Exploration of Spatio-temporal Changes of Ecosystem Health in Guangxi Beibu Gulf Economic Zone by Coupling of VOR and InVEST Models
..... DOU Shiqing, ZHANG Nan, LIU Dandan, JING Juanli, XU Yong, GAO Haikuan(581)

Special Columns

- Preparation and Luminescence Properties of Composite Rare Earth Light Conversion Materials for Enhancing Plant Photosynthesis WANG Yan, LI Cuicui, YANG Xilin, CHENG Lichun, ZHOU Lina(593)
- External Detection Method and Engineering Application of Offshore Oil Single Point Mooring System
..... LIU Xiaoyan, LUO Yao'an, HUANG Jianfu, FANG Lixiang(604)

No. 4(August 2024)

Emerging Contaminants and Eco-environmental Security

- Research Hotspots on Ecological Effects of Emerging Contaminants on the Environment WANG Xiaohui, PU Gaozhong(613)
- Visual Analysis of Research Hotspots and Progress of Microplastics in Freshwater Ecological Environment LI Xiulin, WANG Xiaofei, WANG Xiaohui, LI Haixiang, YANG Wen, PU Gaozhong(622)
- Governance Efficiency and Emission Reduction Potential of VOCs from Typical Industries in Zhengzhou ... SUN Peng, LUO Yilin, LIU Yang, LI Fang, FU Guangyu, XU Yuanqian, CAO Jiahui, YUE Libo, CAO Xia(635)
- Characteristics of VOCs and Ozone Formation Sensitivity during Typical Pollution Days in Xuchang XU Yuanqian, FU Guangyu, SUN Peng, LUO Yilin, CAO Jiahui, LAI Zichun, SUN Hanghang, LÜ Jianxiang, WANG Jie, CAO Xia(645)
- Assessment of Exposure and Inhalation Hazards of Organic Light-Emitting Materials Based on a Quantitative Structure-Property Relationship Model CHEN Ruifeng, FENG Jingjing, MO Ling, JIANG Qianwen, HUANG Liangliang, LIAO Jianxiong(657)
- Effect of Rust on Litter Decomposition and Nutrient Release in the Water-Level Fluctuation Zone of Danjiangkou Reservoir under the Influence of Nano-ZnO YANG Jinxia, ZHANG Cheng, WANG Xiaoxi, ZHOU Junrong, ZHANG Hanqi, BAO Wenhua, YE Rumeng, TIAN Kai(665)

Biological Sciences

- Research Progress in Stem Base Rot of Passion Fruit LUO Chao, CHEN Yanlu, FANG Wenxia, WU Xiaogang, LI Shidong, GUO Rongjun, WANG Bin(676)
- Enzymatic Characteristics of *Aspergillus flavus* Pectinase and Its Application in the Hydrolysis of Fallen Leaves of *Magnolia denudata* XIAN Liang, QIN Yan, JIANG Yongqiang, TAO Ping, LIU Sijia, LI Longting, NING Jian, LI Yi, LIANG Ge, WANG Qingyan(688)
- Variation Characteristics of Microbial Community in the Surface Soil of Different Stand Types HE Xinnuo, QIN Yunbin, MA Jiangming, SUN Chenxi, DING Suyu, PAN Yu, HUANG Huixin, PAN Xinru, JIANG Xuefang, GAO Yufan(698)
- Response Surface Methodology-Based Extraction Process Optimization and Antioxidant Activity of Total Flavonoids from *Horsfieldia hainanensis* XU Jianwang, WEI Xiao, TANG Jianmin, ZOU Rong(712)
- Influences of Light Environment on Flowering, Growth and Photosynthetic Characteristics of *Houttuynia cordata* ZHAO Shuaige, LIU Baoyu, WANG Manlian, TANG Hui, NIE Cheng, ZHANG Yongkai, ZHENG Yumei(723)
- Gene Cloning, Expression and Characterization of Chitinase from *Microbulbifer thermotolerans* YLW106 OUYANG Yuying, LIN Mei, WANG Qiaozhen, LU Bo, LÜ Xinyue, HUANG Jun, ZHOU Rong, LIANG Shijie, QIN Qirong, WANG Qingyan, HUANG Shushi, LIAO Siming(731)

Marine Sciences

- Temporal-Spatial Variations and Nutrient Status in the Aquatic Environment of Deep-Water Cage Aquacul-

ture in Houshui Bay	PANG Qiaozhu, CHEN Dandan, CHEN Xiaohui, XIE Haiqun, LIANG Jilin(742)
Genetic Diversity of <i>Acanthus ebracteatus</i> Based on Microsatellite Markers	GAO Tingwei, TONG Lihao, ZHONG Yunxu, YAN Bing, CHEN Siting(754)
Development of Microsatellite DNA Markers Based on RAD-seq Data of <i>Charybdis feriata</i>	TANG Di, YANG Mingqiu, ZOU Xiong, LIU Hongtao(763)

Special Columns

Short-term Wind Power Forecasting Based on VMD-GRAU	XIE Jincai, YU Qiancheng, WANG Zhici, HU Zhiyong, YU Xulong, WANG Aoqiang(773)
Establishment and Validation of a Short-term Prognostic Model for Acute Ischemic Stroke Patients Beyond the Time Window for Intravenous Thrombolysis Based on Machine Learning	ZHOU Hui, FENG Bing, LIU Xuri, ZOU Yong, TANG Hui, HUANG Qinbin, CHEN Tingjun, ZOU Donghua(781)
Autotrophic Denitrification and Phosphorus Removal Performance of Pyrite/Siderite Composite Mineral Sources	LI Jincheng, LU Zuxian, JING Hanjia, LIU Chen, WANG Yike(788)
A Beamforming Design for Full-Duplex Heterogeneous Network with SWIPT Based on Secrecy Energy Efficiency	ZHU Qing, LI Taoshen, LÜ Pin(797)
Effects of Different Mixed Tree Species Patterns on Fine Root Biomass in a Southern Subtropical Plantation	WANG Shuaikang, LUAN Junwei, WANG Shumei, YOU Yeming, HE Mingxia, HUANG Haimei, HUANG Xueman(808)

No. 5(October 2024)

Medical Scenario

Technology and Development Trends of Rehabilitation Robots for Limbs	GAO Xueshan, LIU Kaiyuan, ZHAO Peng, MIAO Mingda(823)
Reconstruction of ECG Signals from Millimeter Wave Radar Based on Attention Mechanism	DUAN Wei, HUANG Tinglei, LIU Jie, HAN Xiaoyu(833)
A Drug-Target Interaction Prediction Method Based on Denoising Auto-encoders and Similarity	LIN Yanmei, CAO Aiqing, PENG Yuzhong(842)
Research on the Construction and Application of Multi-Dimensional “Health Index” in the Management of Hypertensive Patients	LI Hu, GAN Xinyan, HUANG Xiuwen(854)
An Algorithm for Early Diagnosis of Alzheimer’s Disease Based on Deep Neural Network	LIU Xingyi(864)

Bioinformatics

A Review on Graph Self-Supervised Learning	HU Rongyao, YANG Siqi, MA Xiaotong, HUANG Jincheng, ZHU Xiaofeng(873)
Spatial Transcriptome Mapping Algorithm and Speed Optimization	TANG Jianheng, ZHANG Zi(892)
A Data Clustering Algorithm Based on Fuzzy COOT K-Harmonic Means	DAI Luanyue, LIANG Xiaoyue, WANG Shuai, WANG Zhenpo(900)

MSViT: A Lightweight Image Classification Hybrid Model Integrating Multi-Scale Features
 QIN Xiao, PENG Lei, LIAO Huixian,
 YUAN Chang'an, ZHAO Jianbo, DENG Chao, QIAN Quanmei, LU Hongfei, GONG Yuanxu(912)

Single-cell Non-negative Matrix Factorization Algorithm Based on Gamma-Poisson Distribution and Graph
 Regularization LONG Fa'ning, PAN Weiyan, SU Xiuxiu(925)

Production Scenario

An Intensive Small Object Detection Network Based on Multi-scale Feature Extraction
 ... YUAN Chang'an, WANG Wenji, HUANG Haojie, QIN Zhengyou, ZHANG Jinyong, LIAO Huixian,
 QIN Xiao, LI Xiaosen, LI Yongyu, FU Yunqin, TAN Sijing, QIAN Quanmei, WU Kunsheng(939)

A Adaptive Planning Algorithm for the Trajectory of Patrol Unmanned Aerial Vehicle
 SHI Chengyu, WANG Tianjiao, ZHANG Yingying, GU Yuexin, FENG Xiao(954)

A Novel Network Abnormal Traffic Detection Method for Imbalanced Network Data
 JIN Zhenghan, LI Jianbin, LI Jinghao, LI Hexiao(966)

Online Interaction of Agricultural Products Based on WAE Topic Model and Social Network: A Case Study of
 "Sugar Orange Bar" YUE Fang, GAO Ziya, FAN Maorui, ZHANG Faming, XIAO Jijun(976)

Transportation Scenario

GCTR: A Granularity-Unified Cross-Modal Text-person Retrieval Model QIN Xiao,
 ZHANG Jinyong, GONG Yuanxu, WU Kunsheng, HUANG Haojie, CHUN Xin, YUAN Chang'an(988)

A Dynamic Ensemble Selection Model Based on Feature Selection and Clustering
 XU Yuxin, CAO Jianjun, WANG Baowei, WENG Nianfeng, GU Chumei(1002)

A Novel Chinese Traffic Police Gesture Recognition Network Based on Human Pose
 QIN Xiao, LI Yongyu, WU Kunsheng, YUAN Changan, TAN Sijing, LIU Shanrui(1011)

An Adaptive Planning Algorithm for 3D Flight Track of Unmanned Aerial Vehicle in Patrol Tasks
 ZHAO Zhaona, LI Liyan, ZHANG Yunxia, FAN Ying, FENG Xiao(1025)

A Fusion Method Based on Uncalibrated LiDAR Curves and RGB-D Images
 XU Zhengli, XIAO Sufang, YANG Minghao(1038)

Node Coverage Optimization of Multi-objective Infrared Wireless Sensor Networks Based on Hybrid Strategy
 Improved Aquila Optimizer HUANG Hua, ZHANG Miao(1049)

No. 6 (December 2024)

Review

Research Status and Prospects of Sustainable Utilization of Landscape Resources in Lijiang River Basin ...
 ZHENG Wenjun, CHEN Ying, HONG Zizhen(1063)

Biodiversity and Its Conservation

Resource Composition and Spatial Distribution Characteristics of Ancient and Famous Trees in the Lijiang
 River Basin KANG Xiuqin, MENG Haoxuan, LU Jiafeng, ZHU Jingui(1076)

Butterfly Community Structure and Diversity in Guangxi Mao'ershan National Nature Reserve
 YAO Wei, ZHOU Shanyi, CHEN Zhilin, TANG Qiling,

ZHOU Xueting, HUANG Wanling, WANG Guohai, WEI Xinkui, ZHOU Qihai(1089)
 Composition and Diversity of Spontaneous Plant Species in Different Habitats of the Water System around Guilin City LU Jiafeng, KANG Xiuqin, MENG Haoxuan(1101)
 Chemical Stoichiometry of Leaves from Plants with Different Growth Forms and Relationship with Phylogeny in the Huixian Karst Wetland of Guilin
 LI Wenjun, XU Xueqing, ZHOU Xuewen, LÜ Shihong, BAI Kundong(1112)
 Dynamics and Ecological Adaptability of Non-Structural Carbohydrates in Leaves of Common Plants in the Lijiang River Basin ZHONG Yiqian, WANG Bin, WU Miaorui,
 YANG Meixue, XU Zeshuai, TAO Wanglan, LI Jianxing, ZHAO Hongming, LI Xiankun(1121)

National Landscape and Ecological Restoration

Evaluation of Landscape Ecological Security and Analysis of Its Influencing Factors in the Lijiang River Basin HE Wen, YU Ling, WANG Jinye, YAO Yuefeng, LI Ning, HUANG Jinjun(1132)
 Coordination between Industrial Structure Optimization and Intensive Land Use in Lijiang River Basin ...
 LIU Shengfeng, ZHAO Shuangfei, ZENG Wei, FENG Da, YANG Shengnan(1144)
 Spatiotemporal Evolution Analysis of Landscape Pattern and Habitat Quality in the Lijiang River Basin Based on the InVEST Model HU Luyao, DAI Junfeng, ZHENG Wenjun, QI Shanshan, MO Jianying(1156)
 Ecological Resilience-Based Strategies for Ecological Restoration in Territorial Space: A Case Study of the Lijiang River Basin LU Xiaogang, WEI Shuwei, LIANG Zhenran, LIU Fangfang, ZHANG Jing(1168)

Tourism Planning and Optimization Design

Route Selection of Scenic Byways along Lijiang River Based on Multi-Source Data and Minimum Cumulative Resistance Model MEI Junxiang, TANG Ye, HE Yingjie, SUN Yayun, ZHENG Wenjun(1178)
 Evolution Characteristics and Driving Mechanism of Self-Guided Travel Recreational Network Structure in Lijiang River Scenic Area BAI Kun, WANG Xiuxiu, XU Mengyuan, WANG Yuanyu(1188)

Cultural Landscape and Protection Development

Perception and Evaluation of Cultural Ecosystem Services of Villages in the Lijiang River Basin
 JIANG Siyi, ZHENG Wenjun, LI Xiuqun(1207)
 Value Evaluation of Traditional Villages in the Lijiang River Basin Based on Ontology-Regional Scale
 HONG Zizhen, ZHENG Wenjun, HU Luyao(1220)
 Analysis of Landscape Evolution and Plant Landscape Characteristics of Traditional Villages in Peak Cluster Area, Guilin Karst World Natural Heritage Site WU Miaorui, YANG Meixue, ZHONG Yiqian,
 LI Ningxin, XU Zeshuai, WANG Zijun, XIANG Wusheng, ZHENG Wenjun, LI Xiankun(1233)