



目次



2026年 第45卷

专题论述

- 白酒酿造过程中水解酶类的功能与作用研究进展焦冠华, 汪俊卿, 田浩宇, 李丕武, 杜 鹏*,
王瑞明*, 李 楠, 刘开泉, 杜新勇, 王朝青(1)
- 白酒中吡嗪类化合物研究进展杜佳炜*, 刘家欢, 江 莎, 宁珍珍,
张 杨, 倪兴婷, 李 强, 杨 强(9)
- 基于文献计量学分析白酒自动化酿造技术研究现状及趋势刘琨毅, 郭 超, 王 琪*, 祝小琴(17)

研究报告

- 甘蔗糖蜜胁迫及高温耐受型低产甘油、高产乙醇酿酒酵母诱变选育廖树强, 廖 蓓, 郑 平, 李 辉,
施亦帆, 牛福星*(24)
- 酱香型白酒不同轮次酒醅多肽分离鉴定及其抗氧化作用机制分析刘湘月, 张思杰, 宋芬芳, 伍 强*, 彭希林(29)
- 不同香型白酒骨架成分的风味差异分析倪兴婷, 孙细珍, 李 强*, 张 杨, 高雪芬,
田 磊, 刘 炎, 张雪元, 杨 强(38)
- 不同发酵时间桂林豆豉菌群多样性崔志钰, 温宇蓉, 唐 庆, 潘欣悦, 聂 辉*(45)
- 产酯化酶芽孢杆菌筛选鉴定、酯化条件优化及应用马 悦, 段希宇, 刘晓光, 李文佳,
龙俊勇, 曹满堂, 何兆烽, 苏小军*(51)
- 产糖化酶根霉筛选、鉴定及其发酵性能吴 越, 李 远, 张瑞景, 张 洁, 李大海,
王鸿彪, 曹敬华, 徐 健, 朱正军*(59)
- 不同地区稻草微生物群落差异及其对高温大曲
发酵过程微生物群落结构的影响程 伟, 沈 毅, 黄廷财, 李秋霞, 尤宇漫, 聂宏芳,
甘婉莹, 吴玉梅, 牛 姣, 张亚东*(67)
- 初始含水量对传统酱香型大曲发酵活跃期
挥发性风味物质与菌群结构的影响杨儒洁, 刘晓彤, 魏 阳, 冉茂芳, 毛雪婷, 汤涵岚,
杨 阳, 马吾霞, 沈才洪, 王松涛*(75)
- 基于多维测序解析酒糟醋醅发酵前后微生物组成及功能母 雨, 苏媛媛, 田梓又, 潘英东, 杨 惠,
雷义露, 黄 颖, 赵 驰, 张 洪*(87)
- 发酵液中伊枯草菌素A脱色及分离纯化工艺优化张文静, 王学珍, 左守博, 张慧莉*(98)
- 后火、清茬和红心低温大曲发酵酒醅真菌类群解析丁宇哲, 侯强川, 刘忠军, 钟吉安, 郭 壮*(106)
- 基于电子鼻与多元统计的辣椒品种及发酵工艺对豆瓣酱香气的协同调控陈 鑫, 侯思皓, 杨婉玲, 练华山,
巩雪峰, 许 艺, 李 红, 宋占锋*(114)
- 不同品种青稞固态发酵制备青稞红曲活性成分的差异分析李 芳, 李斐然, 黄卫锋, 张 萌, 杨文娟,
叶雨婷, 张梦实, 吴大强*(122)
- 植物乳植杆菌LL6-1对青稞蕨麻酵素品质和抗氧化活性的影响文华英, 张玉红*(129)
- 无核白葡萄干蒸馏酒不同馏分挥发性风味成分分析于 筱, 王文文, 周晓明, 伍新宇, 陈 恺*(139)
- 高温大曲发酵过程中稻草微生物群落演替规律刘 帮, 李依芸, 徐 炜, 张静瑶, 李 素,
王以叶, 曾梦圆, 牟 慧, 沈 毅*(148)
- 浓香型白酒窖底泥和窖壁泥理化、细菌结构和
风味成分的差异及相关性分析代良超, 刘 丹, 杨岱霖, 邹永芳, 文 静*(157)
- 新疆传统酸马奶中肠球菌的分离鉴定与益生特性评价朱昊毅, 刘庆玲, 张 喆, 张婧瑜,
牛丝瑜, 李 涛, 李 静*(166)

版

送

目次



第06期 总第412期

- 醋复方口服液对糖尿病小鼠的降血糖作用及机制 陈 阳, 宫金秀, 李德富, 杨彩玲, 赵容宇, 郎繁繁, 夏瑶瑶, 梁 楷, 闫裕峰, 田世民, 郑 宇, 王 敏*(174)
- 不同酿酒酵母对紫薯酒发酵过程中甲醇和高级醇生成的影响 陈 楠, 刘思琪, 吴正云*, 康 峻, 徐 旻, 张文学(185)
- 腺苷酸硫酸激酶基因MET14过表达对酿酒酵母耐冻性的影响 郭伟雄, 冯小勇, 冯 劲, 高 静, 汤阳春, 彭 云, 汤 站, 施庆珊, 李志成*(192)
- 不同季节对清香型白酒大糟酒醅细菌群落结构的影响 曹苗文*, 杨凯环, 李 骐, 薄 涛(199)
- 传统与机械制曲方式对李渡大曲品质的影响 张 欢, 刘眉伶, 任文静, 韩进华, 杨 涛, 朱栋才, 汤向阳, 马立娟, 杜丽平*(206)
- 基于转录组学解析培养基对酿酒酵母表型影响机制 孙晓燕, 孙 洁, 楼雷鸣, 李庆良, 王国良(215)

应用技术

- 黄菊花液发酵工艺优化及其抗氧化活性与差异代谢物分析 和 欣, 黄婉怡, 阮宇洵, 王兆丹*(222)
- 紫皮石斛配制酒制备工艺优化及其品质分析 周 娜, 白智琳, 李佳洁, 左 玲, 郑双武, 柳玉洪, 朱强强, 盛 军, 燕静云*(231)
- 全果猕猴桃红茶菌发酵液复合果酒发酵工艺优化及挥发性成分分析 王荣荣, 刘 畅, 朱 静, 张阳阳*, 薛 冉(238)
- 黄浆水发酵产 γ -氨基丁酸条件优化及其抗氧化活性 周 权, 袁雯颖, 李国兴, 王小权, 蒋立文, 范贤康, 罗 洁, 周 辉*(245)
- 响应面优化浓香型白酒配料工艺 李文进, 张宿义*, 杨甲平, 贾俊杰, 杨 峰, 林 发, 陈峙霖, 宋 川, 文 悦, 张正杰, 刘芮荻, 范相巍, 李晨阳(252)
- 高粱理化性质对酱香型白酒生产的影响 龙唐杰, 陈宗校, 陈绍昕, 王连清, 李小波, 张 言, 周兴友, 程艳波*(259)
- 1株产萜类菌株的筛选、鉴定及其在烟用香料中的应用 冯颖杰, 王静文, 王子轩, 安 康, 张婷婷, 刘文召, 张璐璐*(266)

分析检测

- 清香型白酒含硫化合物检测方法的建立及其在白酒关键风味组分分析中的应用 王雅茹, 庄 园, 刘子轩, 王 婧, 孙静宜, 王 健, 刘 冰, 高红波*(274)
- 近红外光谱结合机器学习在清香型白酒原酒快速分级中的应用 胡春红, 杜艳红*, 安凯园, 谭 昊, 李斯迈, 李婷婷, 陈思佳, 李 晓, 王胜洁, 王 珊, 吴雅健(282)

经营管理

- 中国白酒文化感知价值对顾客购买决策的影响 李明宇*, 白婷婷(291)
- 酱香型白酒定制化服务的市场拓展策略 王振涛, 石丁兰, 曹彩霞*(300)
- 齐鲁文化区酒企工业遗产数智活化促进消费升级的路径 刘 谦, 杨兴慧, 张远记*(308)
- 贵州酱香型白酒瓶储老酒价值体系构建及表达路径 阳志锐, 冉红艳*(315)



Contents

China

2026 Vol.45 No.06

Reviews

- Research Progress on Function and Role of Hydrolytic Enzymes in Baijiu Brewing..... JIAO Guanhua, WANG Junqing, TIAN Haoyu, LI Piwu, DU Peng*, WANG Ruiming*, LI Nan, LIU Kaiquan, DU Xinyong, WANG Chaoqing (1)
- Research Progress of Pyrazines in Baijiu..... DU Jiawei*, LIU Jiahuan, JIANG Sha, NING Zhenzhen, ZHANG Yang, NI Xingting, LI Qiang, YANG Qiang (9)
- Current Status and Trends of Automatic Brewing Technology of Baijiu Based on Bibliometrics..... LIU Kunyi, GUO Chao, WANG Qi*, ZHU Xiaoqin (17)

Research Article

- Mutagenic Breeding of Low-Glycerol and High-Ethanol Producing *Saccharomyces cerevisiae* with Tolerance to Sugarcane Molasses Stress and High Temperature..... LIAO Shuqiang, LIAO Bei, ZHENG Ping, LI Hui, SHI Yifan, NIU Fuxing* (24)
- Isolation, Identification and Antioxidant Mechanism Analysis of Polypeptides in Fermented Grains from Different Rounds of Sauce-Flavor Baijiu Fermentation..... LIU Xiangyue, ZHANG Sijie, SONG Fenfang, WU Qiang*, PENG Xilin (29)
- Analysis of Flavor Difference of Skeleton Components in Baijiu with Different Flavor Types..... NI Xingting, SUN Xizhen, LI Qiang*, ZHANG Yang, GAO Xuefen, TIAN Lei, LIU Yan, ZHANG Xueyuan, YANG Qiang (38)
- Microbial Community Diversity of Guilin Douchi at Different Fermentation Times..... CUI Zhiyu, WEN Yurong, TANG Qing, PAN Xinyue, NIE Hui* (45)
- Screening, Identification, Esterification Condition Optimization and Application of Esterase-Producing *Bacillus* Strains..... MA Yue, DUAN Xiyu, LIU Xiaoguang, LI Wenjia, LONG Junyong, CAO Mantang, HE Zhao Feng, SU Xiaojun* (51)
- Screening, Identification and Fermentation Characteristics of High Glucoamylase-Producing *Rhizopus* Strain..... WU Yue, LI Yuan, ZHANG Ruijing, ZHANG Jie, LI Dahai, WANG Hongbiao, CAO Jinghua, XU Jian, ZHU Zhengjun* (59)
- Differences in Microbial Community of Straw from Different Regions and Their Effects on Microbial Community Structure during High-Temperature Daqu Fermentation..... CHENG Wei, SHEN Yi, HUANG Tingcai, LI Qiuxia, YOU Yuman, NIE Hongfang, GAN Wanying, WU Yumei, NIU Jiao, ZHANG Yadong* (67)
- Effects of Initial Moisture Content on Volatile Flavor Substances and Microbial Community Structure of Traditional Sauce-Flavor Daqu during Active Fermentation Period..... YANG Rujie, LIU Xiaotong, WEI Yang, RAN Maofang, MAO Xueting, TANG Hanlan, YANG Yang, MA Wuxia, SHEN Caihong, WANG Songtao* (75)
- Analysis of Microbial Composition and Functions before and after Fermentation of Vinegar Grains from Distillers' Grains Based on Multi-dimensional Sequencing..... MU Yu, SU Yuanyuan, TIAN Ziyu, PAN Yingdong, YANG Hui, LEI Yilu, HUANG Ying, ZHAO Chi, ZHANG Hong* (87)
- Optimization of Decolorization, Separation and Purification Process of Iturin A in Fermentation Broth..... ZHANG Wenjing, WANG Xuezhen, ZUO Shoubao, ZHANG Huili* (98)
- Analysis of Fungal Communities in Fermented Grains by Houhuo, Qingcha and Hongxin Low-Temperature Daqu..... DING Yuzhe, HOU Qiangchuan, LIU Zhongjun, ZHONG Ji'an, GUO Zhuang* (106)
- Synergistic Regulation of Pepper Variety and Fermentation Process on Aroma of Broad Bean Paste Based on Electronic Nose and Multivariate Statistics..... CHEN Xin, HOU Sihao, YANG Wanling, LIAN Huashan, GONG Xuefeng, XU Yi, LI Hong, SONG Zhanfeng* (114)
- Differential Analysis of Active Components in Highland Barley *Monascus* Prepared by Solid-State Fermentation with Different Highland Barley Varieties..... LI Fang, LI Feiran, HUANG Weifeng, ZHANG Meng, YANG Wenjuan, YE Yuting, ZHANG Mengshi, WU Daqiang* (122)
- Effect of *Lactiplantibacillus plantarum* LL6-1 on Quality and Antioxidant Activity of Highland Barley and *Potentilla anserine* L. Jiaosu..... WEN Huaying, ZHANG Yuhong* (129)
- Analysis of Volatile Flavor Components in Different Fractions of Thompson Seedless Raisins Distilled Spirits..... YU Xiao, WANG Wenwen, ZHOU Xiaoming, WU Xinyu, CHEN Kai* (139)
- Succession Regularity of Microbial Community in Straw during High-Temperature Daqu Fermentation..... LIU Bang, LI Yiyun, XU Wei, ZHANG Jingyao, LI Su, WANG Yiye, ZENG Mengyuan, MOU Yi, SHEN Yi* (148)
- Differences and Correlation Analysis of Physicochemical Property, Bacterial Community Structure and Flavor Components Between Bottom and Wall Pit Muds of Strong-Flavor Baijiu..... DAI Liangchao, LIU Dan, YANG Dailin, ZOU Yongfang, WEN Jing* (157)

Brewing

Contents



Serial No.412

Isolation, Identification and Evaluation of Probiotic Property of Enterococci from Traditional Koumiss in Xinjiang	ZHU Haoyi, LIU Qingling, ZHANG Zhe, ZHANG Jingyu, NIU Siyu, LI Tao, LI Jing* (166)
Hypoglycemic Effect and Mechanism of Compound Vinegar Oral Liquid on Diabetic Mice	CHEN Yang, GONG Jinxiu, LI Defu, YANG Cailing, ZHAO Rongyu, LANG Fanfan, XIA Yaoyao, LIANG Kai, YAN Yufeng, TIAN Shimin, ZHENG Yu, WANG Min* (174)
Effects of Different <i>Saccharomyces cerevisiae</i> Strains on Methanol and Higher Alcohol Formation of Purple Sweet Potato Wine During Fermentation Process	CHEN Nan, LIU Siqi, WU Zhengyun*, KANG Jun, XU Min, ZHANG Wenxue (185)
Effect of Overexpression of the Adenylyl-Sulfate Kinase Gene <i>MET14</i> on Freeze Tolerance in <i>Saccharomyces cerevisiae</i>	GUO Weixiong, FENG Xiaoyong, FENG Jin, GAO Jing, TANG Yangchun, PENG Yun, TANG Zhan, SHI Qingshan, LI Zhicheng* (192)
Influence of Production Seasons on the Bacterial Community Structure in Dacha Fermented Grains of Light-Flavor Baijiu	CAO Miaowen*, YANG Kaihuan, LI Qi, BO Tao (199)
Effect of Traditional and Mechanical Daqu-Making Methods on the Quality of Lidu Daqu	ZHANG Huan, LIU Meiling, REN Wenjing, HAN Jinhua, YANG Tao, ZHU Dongcai, TANG Xiangyang, MA Lijuan, DU Liping* (206)
Transcriptome-Based Analysis on the Mechanism of Culture Medium Affecting Phenotypes of <i>Saccharomyces cerevisiae</i>	SUN Xiaoyan, SUN Jie, LOU Leiming, LI Qingliang, WANG Guoliang (215)

Applied Technology

Fermentation Process Optimization, Antioxidant Activity and Differential Metabolites of <i>Chrysanthemum morifolium</i> Liquid	HE Xin, HUANG Wanyi, RUAN Yuxun, WANG Zhaodan* (222)
Optimization of Preparation Technology and Quality Analysis of <i>Dendrobium devonianum</i> Paxt. Blended Liquor	ZHOU Na, BAI Zhilin, LI Jiajie, ZUO Ling, ZHENG Shuangwu, LIU Yuhong, ZHU Qiangqiang, SHENG Jun, YAN Jingyun* (231)
Optimization of Fermentation Process and Analysis of Volatile Components of Compound Fruit Wine from Whole Kiwifruit and Kombucha Broth	WANG Rongrong, LIU Chang, ZHU Jing, ZHANG Yangyang*, XUE Ran (238)
Optimization of Fermentation Conditions for γ -Aminobutyric Acid Production from Huangjiangshui and Its Antioxidant Activity	ZHOU Quan, YUAN Wenyong, LI Guoxing, WANG Xiaquan, JIANG Liwen, FAN Xiankang, LUO Jie, ZHOU Hui* (245)
Optimization of Ingredient Proportioning Process for Strong-Flavor Baijiu with Response Surface Methodology	LI Wenjin, ZHANG Suyi*, YANG Jiaping, JIA Junjie, YANG Feng, LIN Fa, CHEN Zhilin, SONG Chuan, WEN Yue, ZHANG Zhengjie, LIU Ruidi, FAN Xiangwei, LI Chenyang (252)
Effect of Sorghum Physicochemical Property on Sauce-Flavor Baijiu Production	LONG Tangjie, CHEN Zongxiao, CHEN Shaoxin, WANG Lianqing, LI Xiaobo, ZHANG Yan, ZHOU Xingyou, CHENG Yanbo* (259)
Screening and Identification of a Terpenes-Producing Strain and Its Application in Tobacco Flavor	FENG Yingjie, WANG Jingwen, WANG Zixuan, AN Kang, ZHANG Tingting, LIU Wenzhao, ZHANG Lulu* (266)

Analysis and Detection

Establishment of Detection Method for Sulfur-Containing Compounds in Light-Flavor Baijiu and Its Application in Analysis of Key Flavor Components of Baijiu	WANG Yaru, ZHUANG Yuan, LIU Zixuan, WANG Jing, SUN Jingyi, WANG Jian, LIU Bing, GAO Hongbo* (274)
Application of Near Infrared Spectroscopy Combined with Machine Learning in Original Liquor Rapid Grade of Light-Flavor Baijiu	HU Chunhong, DU Yanhong*, AN Kaiyuan, TAN Hao, LI Simai, LI Tingting, CHEN Sijia, LI Xiao, WANG Shengjie, WANG Shan, WU Yajian (282)

Operation and Management

Impact of Perceived Value of Chinese Baijiu Culture on Customer Purchase Decisions	LI Mingyu*, BAI Tingting (291)
Market Expansion Strategies for Customized Services of Sauce-Flavor Baijiu	WANG Zhentao, SHI Dinglan, CAO Caixia* (300)
Paths for Digital-Intelligent Activation of Alcoholic Drinks Enterprise Industrial Heritage to Boost Consumption Upgrading in Qilu Cultural Region	LIU Qian, YANG Xinghui, ZHANG Yuanji* (308)
Construction of Value System and Expression Strategy for Bottle-Aged Sauce-Flavor Baijiu in Guizhou	YANG Zhirui, RAN Hongyan* (315)