

目次

2020年第27卷第1期(总第117期)

特邀专稿

- 白酒发酵过程中常见酵母菌扣囊复膜酵母的研究进展 王居伟, 韩培杰, 王雪薇, 等(1)
甘蔗基蔗糖高附加值利用的研究进展 田朝玉, 杨建刚, 朱玥明, 等(10)
重离子束辐射诱变技术在植物育种中的应用 刘瑞媛, 金文杰, 曲颖, 等(20)
植物凝集素的生物学功能与应用 王钰清, 邢雪聪, 柴许然, 等(27)
真菌来源含[2.2.2]-环二氮辛烷环系统的异戊烯基吲哚生物碱
..... 黄艳冰, 何其欢, 梁永源, 等(40)

生物技术

- 高产光学纯(R)-乙偶姻工程菌株的构建与发酵工艺优化 马志林, 陈先锐, 叶柳健, 等(49)
铜离子耐受菌的筛选及其吸附特性研究 骆治昊, 田芬, 韦宇拓(57)
红树林土壤环境DNA提取和纯化方法比较 朱旭瑶, 杨明柳, 潘红平, 等(65)
彩叶类凤梨半致死温度测定及其对温度的适应性评价 修美玲(76)

环境保护

- 红树林碳埋藏过程对海平面上升、气候变化和人类活动的响应 徐慧鹏, 刘涛, 张建兵(84)
基于ARMA-GARCH模型的南宁市O₃浓度预测研究 梁炜, 李雅箐, 黄喜寿, 等(91)

计算机科学

- 基于超混沌系统和离散分数随机变换的图像加密算法 周玲, 周颖, 潘书敏, 等(98)
人工蜂与K-means混合算法在VANETs的应用 黄欣, 余思东, 赵志刚(104)

- 投稿指南 (19)
2018/2019年度本刊优秀编委及2019年度优秀审稿专家名单 (48)

CONTENTS

2020 Vol. 27 No. 1 (No. 117)

Special Issue

- Advancing Research on *Saccharomyces fibuligera* : A Common Yeast Species During Baijiu Fermentation WANG Juwei, HAN Peijie, WANG Xuewei, et al. (1)
- Research Progress on High Value-added Utilization of Sugarcane-based Sucrose TIAN Chaoyu, YANG Jiangang, ZHU Yueming, et al. (10)
- Application of Heavy Ion Beam Irradiation Mutagenesis Technology in Plant Breeding LIU Ruiyuan, JIN Wenjie, QU Ying, et al. (20)
- The Biological Function and Application of Plant Lectins WANG Yuqing, XING Xuecong, CHAI Xuran, et al. (27)
- Fungi Origins of the Bicyclo [2.2.2] Diazaoctane Ring System of Prenylated Indole Alkaloids HUANG Yanbing, HE Qihuan, LIANG Yongyuan, et al. (40)

Biotechnology

- Construction of High Yield Optically Pure (*R*) Acetoin Engineering Strain and Optimization of Fermentation Process MA Zhilin, CHEN Xianrui, YE Liujuan, et al. (49)
- Study on Screening and Adsorption Characteristics of Copper Ion Resistance Bacteria LUO Zhihao, TIAN Fen, WEI Yutuo (57)
- Comparison of DNA Extraction and Purification Methods for Environmental Samples from Mangrove Soil ZHU Xuyao, YANG Mingliu, PAN Hongping, et al. (65)
- Determination of the Semi-lethal Temperature for Color-leaf Type Bromeliaceae and Their Adaptability to Temperature XIU Meiling (76)

Environmental Protection

- Response of Carbon Sequestration in Mangroves to Sea Level Rise, Climate Change and Human Activities XU Huipeng, LIU Tao, ZHANG Jianbing (84)
- Research on Atmospheric Ozone Concentration Prediction based on ARMA-GARCH Model in Nanning LIANG Wei, LI Yaqing, HUANG Xishou, et al. (91)

Computer Science

- Image Encryption Scheme based on Hyper-Chaotic System and Discrete Fractional Random Transform ZHOU Ling, ZHOU Ying, PAN Shumin, et al. (98)
- Application of the Hybrid Algorithm of Artificial Bee Algorithm and K-means in VANETs HUANG Xin, YU Sidong, ZHAO Zhigang (104)