

# 渔业科学进展

YUYE KEXUE JINZHAN

第 42 卷 第 2 期

2021 年 4 月

中国科技核心期刊  
中文核心期刊  
全国优秀农业期刊

中国科学引文数据库(CSCD)核心库来源期刊  
中国科技论文统计源核心期刊  
RCCSE 中国权威学术期刊  
中国期刊全文数据库(CNKI)、万方数据、  
中文科技期刊数据库(维普网)收录期刊  
中国海洋文献数据库(CODS)来源期刊  
英国《动物学记录》(ZR)收录期刊  
《水科学与渔业文摘》(ASFA)收录期刊  
《剑桥科学文摘》(CSA)收录期刊  
《乌利希期刊指南》(UPD)收录期刊  
《开放获取期刊指南》(DOAJ)收录期刊

## 目 次

### 研究论文

- 黄海中国对虾环境 DNA (eDNA)的垂直分布规律及其影响因素初探 .....钱璐毅 王伟继 李 苗 单秀娟 金显仕 (1)
- 基于碳、氮稳定同位素研究黄海及东海北部主要鱼类的营养级和食性 .....白怀宇 王玉堃 张廷廷 黄凌风 孙 耀 (10)
- 桑沟湾浮游植物群落结构时空变化特征及影响因素 .....侯 兴 高亚平 杜美荣 姜妮妮 李凤雪 董世鹏 李文豪 孟 珊 王军威 张义涛 蒋增杰 (18)
- 不同模拟情景下长江江豚种群生存力分析 .....吴 斌 王伟萍 贺 刚 王海华 (28)
- 北部湾春季多齿蛇鲻生物学特征及其年际变化 .....邓裕坚 易木荣 李 波 刘思杓 邱康文 沈春燕 何雄波 颜云榕 (36)
- 半滑舌鳎 *hsd11b1* 和 *hsd11b2* 基因的克隆及其温度响应的表达规律 .....郝先才 冯 博 邵长伟 王 倩 (45)
- 投喂频率对绿鳍马面鲀幼鱼生长、生理指标及肝脏 *hsp70* 基因表达丰度的影响 .....徐郑鑫 张鹏飞 陈四清 边 力 常 青 王志达 (55)
- 大菱鲆体重和体尺性状联合 GWAS 分析 .....高 进 杨润清 (63)
- 黄条魮生长性状全基因组关联分析 .....崔爱君 徐永江 王 滨 姜 燕 柳学周 (71)
- 狼鳎的外部形态、消化系统和生殖系统的观察 .....刘宇岩 李凤辉 张小忠 边 力 陈四清 曲江波 高文磊 刘长琳 葛建龙 (79)
- 响应面法优化斑马鱼中微塑料分离、提取的工艺 .....吕世伟 周德庆 刘 楠 于 莹 宿小杰 (87)
- 红鳍东方鲀对 8 种饲料原料的表观消化率 .....王建学 卫育良 徐后国 梁萌青 (96)
- 经验对欧洲舌齿鲈幼鱼行为及其关联性指标的影响 .....胡 雨 刘 鹰 范继泽 周 诚 张志强 马 真 (104)
- 脊尾白虾对低氧响应的转录组学分析 .....曹 梅 王兴强 秦传新 沈 晔 张子杨 钱诗悦 (112)
- 南极磷虾与鹰爪糙对虾酚氧化酶生化性质对比分析 .....林瑞环 赵 玲 曹 荣 刘 淇 (124)
- 盐度骤降对近江牡蛎和长牡蛎能量收支的影响 .....霍恩泽 张雯雯 李加琦 丁敬坤 薛素燕 王英朴 于文涵 侯 兴 蒋增杰 方建光 毛玉泽 (132)
- 背角无齿蚌稚蚌的生长和发育研究 .....郑浩然 陈修报 刘洪波 杨 健 (139)
- 枯草芽孢杆菌对氨氮应答的转录组及 sRNA 分析 .....郑 姚 吴开年 王 利 魏 勇 (147)
- 海水鱼蛭阿鲁加姆锡兰蛭 (*Zeylanicobdella arugamensis*) 的在体感染与生活史观察 .....任宁欣 史成银 万晓媛 谢国驷 王仁宝 王海波 (155)
- 池塘和稻田养殖模式下克氏原螯虾肌肉和肝脏营养成分比较 .....周 剑 赵仲孟 黄志鹏 赵 瀚 李 强 张 露 柯红雨 苏旭涛 肖 宇 杜 军 (162)
- 桑沟湾标准化与传统养殖模式海带的营养成分比较 .....房景辉 何 为 毛玉泽 方建光 蒋增杰 高亚平 蔺 凡 杜美荣 梁 博 (170)
- 威海双岛湾海域海草分布及其生态特征 .....李 政 李文涛 杨晓龙 张彦浩 张沛东 (176)
- 综述
- 海洋环境中有机胺的迁移转化研究进展 .....胡清静 崔正国 孟 赫 白 莹 宋若晗 陆长坤 王宏胜 曲克明 (184)

# PROGRESS IN FISHERY SCIENCES

## CONTENTS

Vol.42 No.2 April 2021

- A Preliminary Study on the Vertical Distribution of *Fenneropenaeus chinensis* Environmental DNA in the Yellow Sea and Its Influencing Factors ..... QIAN Tangyi, WANG Weiji, LI Miao, SHAN Xiujuan, JIN Xianshi (1)
- Trophic Levels and Feeding Characters of Marine Fishes in the Yellow Sea and Northern East China Sea Based on Stable Isotope Analysis ..... BAI Huaiyu, WANG Yukun, ZHANG Tingting, HUANG Lingfeng, SUN Yao (10)
- Temporal and Spatial Variation in Phytoplankton Community Structure and Their Relationship with Environmental Factors in Sanggou Bay ..... HOU Xing, GAO Yaping, DU Meirong, JIANG Weiwei, LI Fengxue, ..... DONG Shipeng, LI Wenhao, MENG Shan, WANG Junwei, ZHANG Yitao, JIANG Zengjie (18)
- Analysis of Population Viability Analysis of Yangtze Finless Porpoise in Different Simulated Scenarios ..... WU Bin, WANG Weiping, HE Gang, WANG Haihua (28)
- Biological Characteristics and Inter-Annual Changes of *Saurida tumbil* in Spring in the Beibu Gulf, South China Sea ..... DENG Yujian, YI Murong, LI Bo, LIU Sibiao, QIU Kangwen, SHEN Chunyan, HE Xiongbo, YAN Yunrong (36)
- Molecular Characterization and Expression Patterns of *hsd11b1* and *hsd11b2* and Their Response to High Temperature Stress in Chinese Tongue Sole *Cynoglossus semilaevis* ..... HAO Xiancai, FENG Bo, SHAO Changwei, WANG Qian (45)
- Effects of Feeding Frequency on the Growth, Physiology, and Expression Abundance of *hsp70* mRNA in Juvenile *Thamnaconus septentrionalis* ..... XU Zhengxin, ZHANG Pengfei, CHEN Siqing, BIAN Li, CHANG Qing, WANG Zhida (55)
- Joint Genome-Wide Association Study of Body Mass and Morphological Traits in Turbot (*Scophthalmus maximus*) ..... GAO Jin, YANG Runqing (63)
- Genome-Wide Association Analysis of Growth Traits in Yellowtail Kingfish (*Seriola lalandi*) ..... CUI Aijun, XU Yongjiang, WANG Bin, JIANG Yan, LIU Xuezhou (71)
- Morphological Characteristics, Digestive System and Reproductive System of the Wolf-Eel (*Anarrhichthys ocellatus*) ..... LIU Yuyan, LI Fenghui, ZHANG Xiaozhong, BIAN Li, CHEN Siqing, QU Jiangbo, GAO Wenlei, LIU Changlin, GE Jianlong (79)
- Process Optimization of Microplastics Extraction and Isolation in Zebrafish Using Response Surface Methodology ..... LÜ Shiwei, ZHOU Deqing, LIU Nan, YU Ying, SU Xiaojie (87)
- Apparent Digestibility Coefficients of Selected Feed Ingredients for Juvenile Tiger Puffer (*Takifugu rubripes*) ..... WANG Jianxue, WEI Yuliang, XU Houguo, LIANG Mengqing (96)
- Effect of Experience on Behavior and Parameter Correlation in Juvenile Seabass (*Dicentrarchus labrax*) ..... HU Yu, LIU Ying, FAN Jize, ZHOU Cheng, ZHANG Zhiqiang, MA Zhen (104)
- Transcriptome Analysis of *Palaemon carinicauda* Subjected to Hypoxic Stress ..... CAO Mei, WANG Xingqiang, QIN Chuanxin, SHEN Ye, ZHANG Ziyang, QIAN Shiyue (112)
- Comparative Analysis of the Biochemical Properties of Phenoloxidase Isolated from *Euphausia superba* and *Trachypenaeus curvirostris* ..... LIN Ruihuan, ZHAO Ling, CAO Rong, LIU Qi (124)
- Effects of Acute Salinity Changes on Energy Budgets of Oysters *Crassostrea ariakensis* and *Crassostrea gigas* ..... HUO Enze, ZHANG Wenwen, LI Jiaqi, DING Jingkun, XUE Suyan (132)
- Growth and Development of the Early Juvenile *Anodonta woodiana* ..... ZHENG Haoran, CHEN Xiubao, LIU Hongbo, YANG Jian (139)
- Transcriptome and sRNA Analyses of the Response of *Bacillus subtilis* to Ammonia Nitrogen ..... ZHENG Yao, WU Kainian, WANG Li, WEI Yong (147)
- In vivo* Infestation and Life Cycle Observation of Marine Leech *Zeylanicobdella arugamensis* ..... REN Ningxin, SHI Chengyin, WAN Xiaoyuan, XIE Guosi, WANG Renbao, WANG Haibo (155)
- Comparison of Nutrient Components in Muscles and Hepatopancreas of Pond- and Paddy Field-Cultured *Procambarus clarkii* ..... ZHOU Jian, ZHAO Zhongmeng, HUANG Zhipeng, ZHAO Han, LI Qiang, ZHANG Lu, KE Hongyu, SU Xutao, XIAO Yu, DU Jun (162)
- A Comparison of Nutrients in Kelp Cultured in Standardized and Traditional Long-Line Modes in Sanggou Bay ..... FANG Jinghui, HE Wei, MAO Yuze, FANG Jianguang, JIANG Zengjie, GAO Yaping, LIN Fan, DU Meirong, LIANG Bo (170)
- Distribution and Ecological Characteristics of Seagrass in Shuangdao Bay, Weihai ..... LI Zheng, LI Wentao, YANG Xiaolong, ZHANG Yanhao, ZHANG Peidong (176)
- Advancements in the Transport and Transformation of Amines in the Marine Environment ..... HU Qingjing, CUI Zhengguo, MENG He, BAI Ying, SONG Ruohan, LU Changkun, WANG Hongsheng, QU Keming (184)