

渔业科学进展

YUYE KEXUE JINZHAN

第 43 卷 第 6 期

2022 年 12 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

专栏：深远海养殖装备与技术

- 基于 FUNWAVE-TVD 模型的离岸养殖围网内外波浪场数值模拟研究 辛连鑫 毕春伟 赵云鹏 陈洪洲 (1)
- 波浪作用下半潜式养殖网箱水动力特性 崔 勇 关长涛 秦升杰 公丕海 王新军 (11)
- 潜浮式船型桁架结构深海养殖网箱避浪性能研究 吴元紧 黄小华 庞国良 胡 昱 袁太平 陈昌平 张 松 (18)
- 桩网连接方式对桩柱式围网网衣受力的影响 王 顺 冯德军 桂福坤 (29)
- 基于数字孪生技术的平面渔网破损检测方法研究 连栗楷 赵云鹏 毕春伟 许智静 杜 海 (40)
- 深远海大型围栏养殖大黄鱼海域沉积物质量分析与评价 宋 炜 陈志和 谢正丽 刘永利 王 磊 王鲁民 (47)
- 自升式深海网箱不同工况下结构安全性评估研究 庞国良 黄小华 陈超核 袁太平 胡 昱 王绍敏 孙长文 (56)
- 大型围栏养殖模式下 2 种规格斑石鲷耐高温研究 李明月 高云红 高云涛 刘成磊 赵 侠 关长涛 贾玉东 (69)
- 斑石鲷低氧耐受能力及血液生理生化指标变化研究 高云涛 高云红 李明月 赵 侠 李文升 庞尊方 关长涛 贾玉东 (79)
- 基于 *Cyt b*、*ND1* 及 *ND2* 的 DNA 条形码在鲷属鱼类物种鉴定中的应用 王开杰 徐永江 崔爱君 姜 燕 王 滨 柳学周 方 璐 薛志勇 毛成全 (89)
- 3 种养殖鲷鱼消化相关酶活性的比较分析 崔爱君 徐永江 柳学周 姜 燕 李 影 王开杰 方 璐 王 滨 (102)
- 我国深远海大型围栏养殖发展现状与展望 宋 炜 韩昕辰 谢正丽 王 磊 刘永利 王鲁民 (111)
- 我国深远海网箱养殖工程与装备技术研究综述 黄小华 庞国良 袁太平 胡 昱 王绍敏 郭根喜 陶启友 (121)

专栏：国家重点研发计划“食物网”项目

- 庙岛群岛毗邻海域底层渔业生物群落多样性特征 赵永松 单秀娟 杨 涛 金显仕 韦 超 (132)
- 烟威近岸海域鱼类早期资源群落结构及适宜产卵生境 张雨轩 卞晓东 单秀娟 金显仕 王惠宾 (148)
- 渤海口虾蛄仔虾季节性分布及其早期补充模式 关丽莎 单秀娟 杨 涛 吴 强 金显仕 (168)
- 长江口中华绒螯蟹繁殖群体的组成与生理特征 杜 楠 耿 智 张 涛 杨 刚 张婷婷 赵 峰 庄 平 (179)

研究论文

- 草鱼-鳊-鲫零换水池塘有机碳、氮、磷收支研究 张 凯 王广军 龚望宝 郁二蒙 李志斐 夏 耘 田晶晶 谢 骏 (188)
- 叶尔羌高原鳅不同地理群体形态差异分析 王新月 张永杰 刘 斐 陈生熬 林旭元 李大鹏 (199)
- 凡纳滨对虾工厂化养殖水体中微小辐环藻 HY01 的分离鉴定及对不同氮源的响应 乔 玲 任成喆 李 健 李铁军 孙秀梅 (207)
- 翘嘴鲌源维氏气单胞菌的分离鉴定及组织病理观察 韩璐璐 杨成年 李 芳 阳龙江 唐征县 彭小倩 朱成科 吕光俊 (216)
- 凡纳滨对虾肠道铁载体高产菌株筛选与饲料添加应用效果的研究 何晶晶 潘鲁青 张国桃 陈元靖 (228)
- 仿刺参性腺酶解过程风味变化 李 倩 夏光丽 曹 荣 刘 淇 高 昕 (239)

PROGRESS IN FISHERY SCIENCES

CONTENTS

Vol.43 No.6 December 2022

Special Topic: Open Ocean Aquaculture Gears and Technology

- Numerical Study on Wave Fields Inside and Around an Offshore Pile-Net Enclosure Structure Based on FUNWAVE-TVD ModelXIN Lianxin, BI Chunwei, ZHAO Yunpeng, CHEN Hongzhou (1)
- Hydrodynamic Characteristics of a Semisubmersible Aquaculture Cage under Waves CUI Yong, GUAN Changtao, QIN Shengjie, GONG Pihai, WANG Xinjun (11)
- Study on Wave Resistance Performance of a Submersible Deep-Sea Aquaculture Cage with Vessel-Shaped Truss Structure WU Yuanjin, HUANG Xiaohua, PANG Guoliang, HU Yu, YUAN Taiping, CHEN Changping, ZHANG Song (18)
- Study on the Effect of the Connection Mode Between Pile and Net on Mechanical Properties for Mesh of Pile-Column Type Net Enclosure WANG Shun, FENG Dejun, GUI Fukun (29)
- Research on the Damage Detection Method of the Plane Fishing Net Based on the Digital Twin Technology LIAN Likai, ZHAO Yunpeng, BI Chunwei, XU Zhijing, DU Hai (40)
- Analysis and Evaluation of Sediment Quality in a *Larimichthys crocea* Farm Cultured with a Deep-Sea Large-Scale Fence SONG Wei, CHEN Zhihe, XIE Zhengli, LIU Yongli, WANG Lei, WANG Lumin (47)
- Research on Structural Safety Evaluation of Jack-up Offshore Net Cage under Different Conditions PANG Guoliang, HUANG Xiaohua, CHEN Chaohe, YUAN Taiping, HU Yu, WANG Shaomin, SUN Changwen (56)
- Thermal Tolerance of Two Sizes of Spotted Knifejaw (*Oplegnathus punctatus*) in Offshore Aquaculture Net Pen LI Mingyue, GAO Yunhong, GAO Yuntao, LIU Chenglei, ZHAO Xia, GUAN Changtao, JIA Yudong (69)
- Hypoxia Tolerance and Alternation of Blood Physiological and Biochemical Indexes in Spotted Knifejaw *Oplegnathus punctatus* GAO Yuntao, GAO Yunhong, LI Mingyue, ZHAO Xia, LI Wensheng, PANG Zunfang, GUAN Changtao, JIA Yudong (79)
- Application of DNA Barcoding Based on *Cyt b*, *ND1* and *ND2* in *Seriola* Species Identification WANG Kaijie, XU Yongjiang, CUI Aijun, JIANG Yan, WANG Bin, LIU Xuezhou, FANG Lu, XUE Zhiyong, MAO Chengquan (89)
- Comparative Analysis of Digestive Enzyme Activities among Three *Seriola* Species CUI Aijun, XU Yongjiang, LIU Xuezhou, JIANG Yan, LI Ying, WANG Kaijie, FANG Lu, WANG Bin (102)
- Development Status and the Prospect of Deep-Sea Large-Scale Fence Culture in China SONG Wei, HAN Xinchun, XIE Zhengli, WANG Lei, LIU Yongli, WANG Lumin (111)
- Review of Engineering and Equipment Technologies for Deep-Sea Cage Aquaculture in China HUANG Xiaohua, PANG Guoliang, YUAN Taiping, HU Yu, WANG Shaomin, GUO Genxi, TAO Qiyu (121)

Special Topic: National Key R&D Program of China "FOOD WEB" Project

- Biodiversity Characteristics of Bottom Fishery Communities in the Sea Adjacent to the Miaodao Archipelago ZHAO Yongsong, SHAN Xiujuan, YANG Tao, JIN Xianshi, WEI Chao (132)
- Community Structure and Suitable Habitat of the Early Life Stages of Marine Fish in the Yantai-Weihai Offshore Waters ZHANG Yuxuan, BIAN Xiaodong, SHAN Xiujuan, JIN Xianshi, WANG Huibin (148)
- Early Recruitment Pattern of *Oratosquilla oratoria* in Relation to the Seasonal Pattern of Juvenile Occurrence in the Bohai Sea, China GUAN Lisha, SHAN Xiujuan, YANG Tao, WU Qiang, JIN Xianshi (168)
- Reproductive Population Composition and Physiological Characteristics of *Eriocheir sinensis* in the Yangtze River Estuary DU Nan, GENG Zhi, ZHANG Tao, YANG Gang, ZHANG Tingting, ZHAO Feng, ZHUANG Ping (179)

Research Article

- Study on Organic Carbon, Nitrogen, and Phosphorus Budgets of Zero-Water Exchange Ponds of Grass Carp, Bighead Carp, and Crucian Carp ZHANG Kai, WANG Guangjun, GONG Wangbao, YU Ermeng, LI Zhifei, XIA Yun, TIAN Jingjing, XIE Jun (188)
- Analysis on the Morphological Differences of *Triplophysa yarkandensis* in Different Geographic Populations WANG Xinyue, ZHANG Yongjie, LIU Fei, CHEN Sheng'ao, LIN Xuyuan, LI Dapeng (199)
- Isolation, Identification and Response of *Actinocyclus exiguus* HY01 to Different Nitrogen Sources from the Indoor Industrial Aquaculture System for *Litopenaeus vannamei* QIAO Ling, REN Chengzhe, LI Jian, LI Tiejun, SUN Xiumei (207)
- Isolation, Identification and Histopathological Observation of *Aeromonas veronii* from *Culter alburnus* HAN Lulu, YANG Chengnian, LI Fang, YANG Longjiang, TANG Zhengxian, PENG Xiaoqian, ZHU Chengke, LÜ Guangjun (216)
- Screening a High-Yield Intestinal Iron Carrier Strain of *Litopenaeus vannamei* and Effect of Feed Addition HE Jingjing, PAN Luqing, ZHANG Guotao, CHEN Yuanjing (228)
- Changes in the Flavor of *Apostichopus japonicus* Gonads During Enzymatic Hydrolysis LI Qian, XIA Guangli, CAO Rong, LIU Qi, GAO Xin (239)