



《中国科学引文数据库》(CSCD核心库)来源期刊  
中文核心期刊  
中国科技核心期刊  
RCCSE中国核心学术期刊

ISSN 2095-1388  
CN 21-1575/S  
CODEN DHDXAW

# 大连海洋大学

# 学报

JOURNAL OF DALIAN OCEAN UNIVERSITY



2023 4  
第38卷 Vol.38  
第4期 No.4  
2023年8月

ISSN 2095-1388

08>  
9 772095 138234

# 大连海洋大学学报

第38卷 第4期 2023年8月

## 目 次

### · 专家约稿 ·

水产动物弧菌病及其生物防治研究进展

邓益琴 (553)

### · 研究论文 ·

大竹蛏水管自切后再生过程的转录组学分析

孙雪峰, 陈爱华, 张志东, 陈素华, 张雨, 曹奕, 朱艳青, 杨家新, 蒋建斌, 吴杨平 (564)  
青鱼 ST251 型高致病性嗜水气单胞菌的毒力及药物敏感性

王玲玲, 侯天牧, 李华明, 项维, 袁汉文, 雷连成, 张付贤 (573)  
巴沙鱼低眼巨鲶胚胎和仔稚鱼发育观察及其生长模型的确定

倪未, 陈海港, 刘晓莉, 于凌云, 李伟, 洪孝友, 刘毅辉, 朱新平 (584)  
投喂频率对珍珠龙胆石斑鱼生长影响的代谢组学分析

程学文, 史存卓, 刘鹰, 傅松哲, 张磊, 田野, 熊玉宇 (593)  
高温胁迫下黑龙江茴鱼幼鱼肝脏组织结构变化及转录组表达特征

丰超杰, 刘霞飞, 张颖, 吕伟华, 韩世成, 张永泉, 许式见, 马波 (603)  
不同水域短颌鲚肠道菌群差异分析

文嗣鑫, 李乐康, 李亚培, 李辰钰, 龚小玲 (615)  
体外传代对大口黑鲈虹彩病毒毒株毒力的影响

王丛旭, 潘晓艺, 周可欣, 穆雪娇, 姚嘉贇, 蔺凌云, 赵建华, 沈锦玉 (623)  
盐度和亚硝酸盐氮胁迫对菲律宾蛤仔“斑马蛤 2 号”和莆田群体代谢的影响

周红, 谷晶, 朱弦一, 郭悦, 杨国军, 霍忠明, 王华 (630)  
不同体长南美白对虾摄食发声信号的变化规律

曹正良, 王秀秀, 李钊丞, 沈梦庭, 胡庆松, 吴迪 (637)  
复合微生态制剂对循环水养殖系统老化生物滤池的在线修复作用

张康, 李秋芬, 崔正国, 胡清静, 王庆奎 (645)  
结合洄游模式的中西太平洋鲣资源评估

黄雨辰, 耿喆, 冯信, 石一茜, 朱江峰 (652)  
基于稳定同位素混合模型的热带东太平洋 4 种鲨鱼摄食差异

张嘉旭, 李泽政, 沈永富, 李云凯 (663)  
辽河口潮滩潮沟形态特征与水文连通强度评价

陈旭, 秦梦恩, 贾莉园, 周运浩, 郭凯元, 姜博, 张明亮 (671)  
湖北省保安湖沉积物污染评价及其影响因子分析

刘佳豪, 李艳, 申东方, 马硕楠, 乔瑞婷, 毛卉 (680)  
海拉尔河浮游植物功能群时空特征及其与水环境因子的关系

刘子暄, 王莹莹, 赵昶, 常畅然, 窦华山, 陈星瑶, 陶玉龙, 马成学 (689)  
系泊参数对半潜式养殖平台水动力特性的影响

刘昌凤, 冯腾跃, 王子谦, 张宇, 陈昌平 (698)  
长宽比对双进水管结构矩形圆弧角养殖池排污特性的影响

史宪莹, 李猛, 任效忠, 冯德军, 刘航飞, 周寅鑫, 刘海波, 赵晨旭 (707)  
基于通道非降维与空间协调注意力的改进 YOLOv8 养殖鱼群检测

涂万, 于红, 张鹏, 韦思学, 张鑫, 杨宗轶, 吴俊峰, 林远山, 胡泽元 (717)  
· 综述 ·

皮质醇对鱼类性别分化过程的影响及调控机制研究进展

高蕊, 闫红伟, 刘鹰, 刘奇 (726)

# Journal of Dalian Ocean University

Volume 38 Number 4 Aug. 2023

## Contents

### · Expert contributions ·

Progress in research on vibriosis and biological control in animals in aquaculture: a review

..... DENG Yiqin (553)

### · Articles ·

Transcriptome analysis of regenerative process after autotomy of siphon in jackknife clam (*Solen grandis*)

..... SUN Xuefeng, CHEN Aihua, ZHANG Zhidong, CHEN Suhua, ZHANG Yu, CAO Yi, ZHU Yanqing, YANG Jiaxin, JIANG Jianbin, WU Yangping (564)

Pathogenicity and drug susceptibility of type ST251 high pathogenicity *Aeromonas hydrophila* strain strain from black carp (*Mylopharyngodon piceus*)

..... WANG Lingling, HOU Tianmu, LI Huaming, XIANG Wei, YUAN Hanwen, LEI Liancheng, ZHANG Fuxian (573)

Embryonic development and growth of larval and juvenile basa fish striped catfish (*Pangasianodon hypophthalmus*) and the determination of growth model

..... NI Wei, CHEN Haigang, LIU Xiaoli, YU Lingyun, LI Wei, HONG Xiaoyou, LIU Yihui, ZHU Xinping (584)

Metabolomics analysis of effects of feeding frequency on growth in pearl gentian grouper (*Epinephelus lanceolatus* ♂ × *E. fuscoguttatus* ♀)

..... CHENG Xuewen, SHI Cunzhuo, LIU Ying, FU Songzhe, ZHANG Lei, TIAN Ye, XIONG Yuyu (593)

Histological structure and transcriptome characteristics in liver of juvenile Amur grayling (*Thymallus arcticus grubei*) under high temperature stress

... FENG Chaojie, LIU Xiafei, ZHANG Ying, LÜ Weihua, HAN Shicheng, ZHANG Yongquan, XU Shijian, MA Bo (603)

Analysis of intestinal microbial diversity of shortjaw tapetail anchovy *Coilia brachygnathus* in different waters

..... WEN Sixin, LI Lekang, LI Yapei, LI Chenyu, GONG Xiaoling (615)

Effect of *in vitro* passage on virulence of largemouth bass (*Micropterus salmoides*) ranavirus

... WANG Congxu, PAN Xiaoyi, ZHOU Kexin, MU Xuejiao, YAO Jiayun, LIN Lingyun, ZHAO Jianhua, SHEN Jinyu (623)

Synergistic stress of salinity and nitrite on metabolism of "Zebra 2" and Putian population of Manila clam (*Ruditapes philippinarum*)

..... ZHOU Hong, GU Jing, ZHU Xianyi, GUO Yue, YANG Guojun, HUO Zhongming, WANG Hua (630)

Regularity of feeding acoustic signals by Pacific whiteleg shrimp (*Litopenaeus vannamei*) with different body length

..... CAO Zhengliang, WANG Xiuxiu, LI Zhaocheng, SHEN Mengting, HU Qingsong, WU Di (637)

Online remediation of aged biofilters in a recirculating aquaculture system by compound probiotics

..... ZHANG Kang, LI Qiufen, CUI Zhengguo, HU Qingjing, WANG Qingkui (645)

Incorporating the migration patterns in stock assessment of Western and Central Pacific Ocean skipjack tuna (*Katsuwonus pelamis*)

..... HUANG Yuchen, GENG Zhe, FENG Ji, SHI Yixi, ZHU Jiangfeng (652)

Feeding differences of feeding ecology of four shark species in the tropical eastern Pacific Ocean using stable isotope Mixing model

..... ZHANG Jiaxu, LI Zezheng, SHEN Yongfu, LI Yunkai (663)

Morphological characteristics and hydrological connectivity evaluation of tidal creeks in tidal flats in Liao River Estuary

..... CHEN Xu, QIN Meng'en, JIA Liyuan, ZHOU Yunhao, GUO Kaiyuan, JIANG Bo, ZHANG Mingliang (671)

Evaluation of pollution status and the influencing factors in sediment in Bao'an Lake, Hubei Province

..... LIU Jiahao, LI Yan, SHEN Dongfang, MA Shuonan, QIAO Ruiting, MAO Hui (680)

Spatial and temporal characteristics of phytoplankton functional groups and relationship with water environment factors in Hailaer River

... LIU Zixuan, WANG Yingying, ZHAO Chang, CHANG Changran, DOU Huashan, CHEN Xingyao, TAO Yulong, MA Chengxue (689)

Influence of mooring parameters on hydrodynamic characteristics of a semi-submersible fish farm

..... LIU Changfeng, FENG Tengyue, WANG Ziqian, ZHANG Yu, CHEN Changping (698)

Influence of length width ratio on sewage discharge characteristics in acircular rectangular angle culture tank with double inlet pipe structure

... SHI Xianying, LI Meng, REN Xiaozhong, FENG Dejun, LIU Hangfei, ZHOU Yinxin, LIU Haibo, ZHAO Chenxu (707)

Farmed fish detection by improved YOLOv8 based on channel non-degradation with spatially coordinated attention

..... TU Wan, YU Hong, ZHANG Peng, WEI Sixue, ZHANG Xin, YANG Zongyi, WU Junfeng, LIN Yuanshan, HU Zeyuan (717)

### · Roundup ·

Advances in effects and regulatory mechanism of cortisol on process of sex differentiation in fish: a review

..... GAO Rui, YAN Hongwei, LIU Ying, LIU Qi (726)