

中文核心期刊
中国科技核心期刊
中国科学引文数据库期刊

ISSN 1003-1111
CN 21-1110/S

水产科学

FISHERIES SCIENCE

第 40 卷 第 5 期 Vol. 40 No. 5
2021 年 9 月 Sep. 2021

辽宁省水产学会 主办
Liaoning Fisheries Society

 科学出版社 出版
Science Press

水 产 科 学

第 40 卷第 5 期 2021 年 9 月

目 次

• 研究与应用 •

- 干露时间对凡纳滨对虾抗氧化功能的影响 王茁宇,杨春桥,王秋举,周井祥,梁 杰,张瑞雪,袁海廷(651)
- 黑鲷钙调磷酸酶 B 同源蛋白 2(CHP2)基因克隆及表达差异 陈淑吟,张志勇,孙瑞健,贾超峰,孟 乾,祝 斐,张志伟,吴国均(661)
- 网箱养殖大黄鱼内脏白点病病原菌分离鉴定及致病性研究 徐春霞(670)
- 养殖密度对墨吉明对虾生长、代谢和免疫的影响 ... 刘慧玲,郭文俊,王成桂,牛潇瑜,杨世平,孙成波(679)
- 复合微生物净水剂在仿刺参养殖中的应用 周文铭,李俐颖,孙欣宇,刘 玥,李 莹,刘冰南(686)
- 利用微卫星分子标记分析渤海湾的口虾蛄遗传多样性 谷德贤,王 婷,许玉甫,吴 宁,王 娜,郝 郁,王 刚,李文雯,刘国山(693)
- 尼罗罗非鱼 CD2-like 基因克隆及其胞外区表达研究 陈福暖,高晓琳,曾晓怜,谢彩霞,汪志文,鲁义善,吴灶和,王忠良,王 蓓(700)
- 黄尾鲷溃疡综合征的病原菌分离鉴定及病理学观察 王荣华,刘益莎,符艳纯,张润春,周 勇,罗玉双,刘 飞,陈中元(710)
- 克氏原螯虾体征性状与肌肉质量的相关及通径分析 彭 波,谭云飞,蓬国辉,熊礼静,白旭峰(718)
- 杂交黄颡鱼体色分化群体形态差异分析 周华兴,段国庆,胡玉婷,汪 焕,江 河,凌 俊,潘庭双,陈小雷(726)
- 拉萨裂腹鱼鱼卵振动敏感性及其适宜孵化模式 曾本和,刘海平,旺 久,牟振波,王万良,王金林,周建设,朱成科,杨瑞斌(733)
- 应用生物完整性指数评价钱塘江流域—浙江段水生态系统健康 肖善势,郝雅宾,刘金殿,张爱菊,王 俊,罗 伟,何海生,周志明(740)
- 糙海参苗种规模化繁育技术研究 冯永勤,翁文明,方再光,王怀洪,王世锋,廖经球,周永灿(750)
- 海水池塘菲律宾蛤仔“斑马蛤”越冬养殖试验 李永仁,张 超,梁 健,郭永军(757)
- 基于 LightGBM 的南太平洋长鳍金枪鱼渔场预报模型研究 宫 鹏,王德兴,袁红春,陈冠奇,吴若有(762)
- N-取代四氢异喹啉衍生物的合成及杀多子小瓜虫研究 姚嘉赞,张成赛,尹文林,蔺凌云,潘晓艺,曹 铮,刘忆翰,夏炎春,沈锦玉(768)
- 养殖水位对 2 龄黄喉拟水龟生长性能的影响 杨贵强,李文通,王占全,贺 杰,林 泉,郑 煌,马峻峰,袁 丁(774)
- 不同饲养状态下克氏原螯虾的格斗行为 徐韵苓,濮雪寅,徐中奇,黄 成,黄亚红(780)

• 综述与专论 •

- 水生红球藻积累虾青素的分子基础与人工诱导调控研究进展 窦 勇,吴 琳,闫永芳,任虹烨,陈家宇,乔之怡,翟胜利,周文礼(786)
- 水生动物 ClqDC 蛋白研究进展 高园园,朱 雷,孔祥会(794)

Fisheries Science

Vol 40 No 5 Sep. 2021

Contents

• Research and Application •

- Effects of Air Exposure Period on Antioxidant Function of Pacific White Shrimp *Litopenaeus vannamei* WANG Zhuoyu, YANG Chunqiao, WANG Qiuju, ZHOU Jingxiang, LIANG Jie, ZHANG Ruixue, YUAN Haiyan (651)
- Molecular Cloning and mRNA Expression Analysis of Calcineurin B Homologous Protein 2 Gene in Black Porgy *Acanthopagrus schlegelii* CHEN Shuyin, ZHANG Zhiyong, SUN Ruijian, JIA Chaofeng, MENG Qian, ZHU Fei, ZHANG Zhiwei, WU Guojun (661)
- Isolation, Identification and Pathogenicity of White-Nodules Disease in Internal Organs of Large Yellow Croaker *Pseudosciaena crocea* in a Sea Cage XU Chunxia (670)
- Effects of Stocking Density on Growth, Metabolism and Immune Functions of Banana Prawn *Fenneropenaeus merguensis* LIU Huiling, GUO Wenjun, WANG Chenggui, NIU Xiaoyu, YANG Shiping, SUN Chengbo (679)
- Application of a Compound Microbial Water Purification Agent in Culture of Sea Cucumber *Apostichopus japonicus* ZHOU Wenming, LI Liying, SUN Xinyu, LIU Yue, LI Ying, LIU Bingnan (686)
- Genetic Diversity of Wild Populations of Mantis Shrimp *Oratosquilla oratoria* in Bohai Bay Using Microsatellite Markers GU Dexian, WANG Ting, XU Yufu, WU Ning, WANG Na, HAO Yu, WANG Gang, LI Wenwen, LIU Guoshan (693)
- Cloning and Analysis of Extracellular Domain Expression of CD2-like Gene in Nile Tilapia *Oreochromis niloticus* CHEN Funuan, GAO Xiaolin, ZENG Xiaolian, XIE Caixia, WANG Zhiwen, LU Yishan, WU Zaohe, WANG Zhongliang, WANG Bei (700)
- Isolation, Identification and Pathological Observation of Ulcerative Disease Syndrome in *Xenocypris davidi* WANG Ronghua, LIU Yisha, FU Yanchun, ZHANG Runchun, ZHOU Yong, LUO Yushuang, LIU Fei, CHEN Zhongyuan (710)
- Path Analysis of Effects of Phenotypic Traits Attributes on Abdomen Meat Weight of Red Swamp Crayfish *Procambarus clarkii* PENG Bo, TAN Yunfei, PENG Guohui, XIONG Lijing, BAI Xufeng (718)
- Analysis of Morphological Differences between Differential Body Colors Groups of Hybrid Yellow Catfish ZHOU Huaxing, DUAN Guoqing, HU Yuting, WANG Huan, JIANG He, LING Jun, PAN Tingshuang, CHEN Xiaolei (726)
- Vibration Sensitivity and Suitable Hatching Mode of *Schizothorax waltoni* Eggs ZENG Benhe, LIU Haiping, Wangjiu, MU Zhenbo, WANG Wanliang, WANG Jinlin, ZHOU Jianshe, ZHU Chengke, YANG Ruibin (733)
- Aquatic Ecological Health Assessment of Qiantang River Basin in Zhejiang Province by Phytoplankton Index of Biotic Integrity XIAO Shanshi, HAO Yabin, LIU Jindian, ZHANG Aiju, WANG Jun, LUO Wei, HE Haisheng, ZHOU Zhiming (740)
- Large-Scale Breeding Techniques of Rough Sea Cucumber *Holothuria scabra* FENG Yongqin, WENG Wenming, FANG Zaiguang, WANG Huaihong, WANG Shifeng, LIAO Jingqiu, ZHOU Yongcan (750)
- Overwinter and Culture of “Zebra” Strain of Manila Clam *Ruditapes philippinarum* in Seawater Ponds LI Yongren, ZHANG Chao, LIANG Jian, GUO Yongjun (757)
- Fishing Ground Forecast Model of Albacore Tuna Based on LightGBM in the South Pacific Ocean GONG Peng, WANG Dexing, YUAN Hongchun, CHEN Guanqi, WU Ruoyou (762)
- Synthesis and Antiparasitic Activity against Protozoan Parasite *Ichthyophthirius multifiliis* of N-Substituted-Tetrahydroisoquinoline Derivatives YAO Jiayun, ZHANG Chengsai, YIN Wenlin, LIN Lingyun, PAN Xiaoyi, CAO Zheng, LIU Yihan, XIA Yanchun, SHEN Jinyu (768)
- Effect of Culture Water Levels on Growth in 2-Year-Old Asian Yellow Pond Turtle *Mauremys mutica* YANG Guiqiang, LI Wentong, WANG Zhanquan, HE Jie, LIN Quan, ZHENG Huang, MA Junfeng, YUAN Ding (774)
- Fighting Behavior of Red Swamp Crayfish in Different Culture Conditions XU Yunling, PU Xueyin, XU Zhongqi, HUANG Cheng, HUANG Yahong (780)

• Overview and Specific Topic •

- A Review : Research Advances on Molecular Basis and Artificially Induced Regulation of Astaxanthin Accumulation in Green Alga *Haematococcus pluvialis* DOU Yong, WU Lin, YAN Yongfang, REN Hongye, CHEN Jiayu, QIAO Zhiyi, ZHAI Shengli, ZHOU Wenli (786)
- Research Progress on C1q Domain-Containing Proteins in Aquatic Animals : a Review GAO Yuanyuan, ZHU Lei, KONG Xianghui (794)

ISSN 1003—1111
CN 21—1110/S

Edited by Editorial Board of Journal of Fisheries Science

Liaoning Ocean and Fisheries Science Research Institute

No 50 Heishijiao Street, Dalian 116023, China

Tel: 86-411-84679512 Chief Editor: ZHOU Zunchun