



《中国科学引文数据库》(CSCD)来源期刊
中国科技论文统计源期刊
中文核心期刊



Q K 2 1 3 0 1 3 3

74-5566
-2024/S
JHDHAR

上海海洋大学 学报

JOURNAL OF
SHANGHAI OCEAN
UNIVERSITY

第30卷 第4期

VOL.30 NO.4

2021年7月

ISSN 1674-5566



万方数据

上海海洋大学学报

2021 年 7 月 第 30 卷 第 4 期

目次

水产生物技术

斑马鱼 *nos2a* 基因的生长调控作用 高 磊,黄亚娟,PENGLLEE Rachit,易欣鑫,鲍宝龙(573)

斑马鱼 *il-11b* 基因 5'端启动子序列及体外活性分析
..... 丁 安,张秋月,张 哲,徐 行,岳倩文,任建峰,李伟明,张庆华(581)

RNA 干扰不同类型 *TLR* 基因对罗氏沼虾免疫相关基因表达的影响
..... 袁 伟,戴习林,戈潘缘元,李 云,丁福江(590)

水产养殖

稻田环境对鲤血清生化指标、肠道组织形态及细菌群落结构的影响
..... 孙 悦,王广军,张 凯,夏 耘,孙金辉,谢 骏,郁二蒙,李志斐,田晶晶(601)

不同脂肪源对克氏原螯虾生长性能、抗氧化能力及肌肉脂肪酸组成的影响
..... 刘小飞,李 威,刘明明,孙 颖,成永旭,奚业文,李嘉尧(613)

海洋性动物水解蛋白对珍珠龙胆石斑鱼生长、饲料利用及体组成的影响 符策峰,李松林,代 敏,陈乃松(624)

中华绒螯蟹幼蟹养殖池塘溶氧收支平衡状况 姚宏心,马旭洲,张文博,贾 延(634)

池塘养殖尾水灌溉稻蟹共生稻田中水稻的生长 沈玺钦,李 奎,刘 凯,顾 芸,石 伟,管卫兵(644)

蟹源弗氏柠檬酸杆菌拮抗菌 PNB3 的分离鉴定与安全性分析..... 黄晓东,张 健,朱元宏,安 健,曹海鹏(653)

鱼类生物学

上海青草沙水库鱼类群落结构的年际变化 易欣鑫,蔡之惊,秦智杰,鲍宝龙,陈立婧,龚小玲(664)

斑石鲷性腺发育的组织学观察与初步分析 赵玉柱,陈张帆,马 腾,李 明,吴焱磊,王清滨,陈松林(675)

鳊幽门盲囊早期发育的组织学特征 赵亮亮,施琳澜,赵金良,周云红(684)

水域环境与保护

不同剪切力对生物絮团粒径及其水处理效果的影响 ... 叶继良,孙大川,谭洪新,罗国芝,刘文畅,赵 悦,吴家胜(691)

不同底面坡度的循环水养殖池塘净化效能 张 俊,贾广臣,王庆诚,车 轩,田昌凤,陈晓龙(702)

基于卷积神经网络的微藻种类识别 崔雪森,田晓清,康 伟,朱浩朋,张胜茂,JOE Silke,戴 阳,樊成奇(710)

渔业资源与管理

海水 pH 变动对东白令海渔业资源丰度变动的影响 陈 芃,陈新军(718)

热带大西洋金枪鱼延绳钓渔业中海龟的兼捕与保护 邢 侃,戴小杰,吴 峰(726)

基于局部附网法的南极磷虾拖网网身大网目选择性 王忠秋,许柳雄,唐 浩,周 成,王学盼(735)

双层十字翼型人工鱼礁流场效应的数值模拟 方继红,林 军,杨 伟,温 英,戚福清(743)

基于不同阶数灰色系统模型的北太平洋柔鱼资源丰度预测 解明阳,陈新军(755)

基于线粒体基因标记的太平洋褶柔鱼群体遗传结构及变异分析
..... 张 琴,曹洋铭,陆化杰,刘 洋,张 忠,方 舟,王丛丛(763)

水产食品科学

β-环糊精-精油微囊活性保鲜垫对草鱼的保鲜效果..... 唐海兵,杨春香,任柏成,吴金鑫,谭咏浩,李 立(770)

JOURNAL OF SHANGHAI OCEAN UNIVERSITY

Vol. 30 No. 4, July 2021

CONTENTS

- Role of *nos2a* in regulating the growth of zebrafish (*Danio rerio*)
..... GAO Lei, HUANG Yajuan, PENGLEE Rachit, YI Xinxin, BAO Baolong(573)
- Sequence analysis of 5' upstream promoter of *il-11b* gene in zebrafish and construction of reporter gene vectors
..... DING An, ZHANG Qiuyue, ZHANG Zhe, XU Xing, YUE Qianwen,
REN Jianfeng, LI Weiming, ZHANG Qinghua(581)
- Effects of RNA interferences with different Toll-like receptors on the expression of immune-related genes
in *Macrobrachium rosenbergii* YUAN Wei, DAI Xilin, GE-PAN yuanyuan, LI Yun, DING Fujiang(590)
- Effects of paddy field environment on serum biochemical indexes, intestinal tissue morphology and bacterial
community structure of common carp (*Cyprinus carpio*) SUN Yue, WANG Guangjun, ZHANG Kai,
XIA Yun, SUN Jinhui, XIE Jun, YU Ermeng, LI Zhifei, TIAN Jingjing(601)
- Effects of different lipid sources on growth performance, antioxidant capacity and muscle fatty acid composition
of *Procambarus clarkii* LIU Xiaofei, LI Wei, LIU Mingming, SUN Ying,
CHENG Yongxu, XI Yewen, LI Jiayao(613)
- Effects of marine animal protein hydrolysates on growth, feed utilization and body composition of hybrid grouper
(*Epinephelus fuscoguttatus* ♀ × *Epinephelus lanceolatus* ♂)
..... FU Cefeng, LI Songlin, DAI Min, CHEN Naisong(624)
- Balance of dissolved oxygen in culture ponds of juvenile *Eriocheir sinensis*
..... YAO Hongxin, MA Xuzhou, ZHANG Wenbo, JIA Yan(634)
- Study on the rice growth in rice-crab culture system irrigated by pond tail water
..... SHEN Xiqin, LI Kui, LIU Kai, GU Yun, SHI Wei, GUAN Weibing(644)
- Isolation, identification and safety analysis of antagonistic strain PNB3 against crab-pathogenic *Citrobacter freundii*
..... HUANG Xiaodong, ZHANG Jian, ZHU Yuanhong, AN Jian, CAO Haipeng(653)
- Analysis of interannual variations for the fish community structure in Shanghai Qingcaosha Reservoir
..... YI Xinxin, CAI Zhijing, QING Zhijie, BAO Baolong, CHEN Lijing, GONG Xiaoling(664)
- Histological observation and preliminary analysis of gonad development in spotted knifejaw (*Oplegnathus punctatus*)
..... ZHAO Yuzhu, CHEN Zhangfan, MA Teng, LI Ming, WU Yaolei, WANG Qingbin, CHEN Songlin(675)
- Histological features of organogenesis of the pyloric caecum of *Siniperca chuatsi*
..... ZHAO Liangliang, SHI Linlan, ZHAO Jinliang, ZHOU Yunhong(684)
- Effect of different shear forces on the particle size of biofloc and its water treatment effect
..... YE Jiliang, SUN Dachuan, TAN Hongxin, LUO Guozhi, LIU Wenchang, ZHAO Yue, WU Jiasheng(691)
- Purification efficiency of a recirculating aquaculture pond with different bottom slopes
..... ZHANG Jun, JIA Guangchen, WANG Qingcheng, CHE Xuan, TIAN Changfeng, CHEN Xiaolong(702)
- Identification of microalgae species based on convolutional neural network
..... CUI Xuesen, TIAN Xiaoqing, KANG Wei, ZHU Haopeng,
ZHANG Shengmao, JOE Silke, DAI Yang, FAN Chengqi(710)
- Effects of pH variation on the abundance of fishery resources in the East Bering Sea
..... CHEN Peng, CHEN Xinjun(718)
- Bycatch and conservation of sea turtles by pelagic tuna longline fishery in tropical Atlantic Ocean
..... XING Kan, DAI Xiaojie, WU Feng(726)
- Selectivity of Antarctic krill trawl body with large mesh using local-attached fine mesh net method
..... WANG Zhongqiu, XU Liuxiong, TANG Hao, ZHOU Cheng, WANG Xuefang(735)
- Numerical simulation of flow field effect around the double-layer cross-wing artificial reef
..... FANG Jihong, LIN Jun, YANG Wei, WEN Ying, QI Fuqing(743)
- Prediction of abundance index of *Ommastrephes bartramii* in the North Pacific Ocean based on different order grey system models
..... XIE Mingyang, CHEN Xinjun(755)
- Genetic variation and genetic structure analysis of *Todarodes pacificus* based on mitochondrial DNA markers
..... ZHANG Qin, CAO Yangming, LU Huajie, LIU Yang, ZHANG Zhong, FANG Zhou, WANG Congcong(763)
- Effects of active fresh-keeping pad of β -cyclodextrin oil microcapsule on the preservation of grass carp
..... TANG Haibing, YANG Chunxiang, REN Bocheng, WU Jinxin, TAN Yonghao, LI Li(770)

《上海海洋大学学报》编辑委员会 (2014年3月)

THE EDITORIAL BOARD FOR JOURNAL OF SHANGHAI OCEAN UNIVERSITY

主 编	Editor in Chief	程裕东 CHENG Yudong	
副 主 编	Associate Editors	黄硕琳 HUANG Shuolin	江 敏 JIANG Min
编 委	Members (按姓氏拼音字母排序)		
	Adelino Canario	陈长胜 CHEN Changsheng	陈良标 CHEN Liangbiao
	陈 明 CHEN Ming	陈新军 CHEN Xinjun	陈 勇 CHEN Yong
	成永旭 CHENG Yongxu	程裕东 CHENG Yudong	高郭平 GAO Guoping
	高 健 GAO Jian	何培民 HE Peimin	何世钧 HE Shijun
	胡夫祥 HU Fuxiang	黄硕琳 HUANG Shuolin	江 敏 JIANG Min
	李柏林 LI Bailin	李家乐 LI Jiale	李伟明 LI Weiming
	李晓峰 LI Xiaofeng	刘占江 LIU Zhanjiang	梁拥成 LIANG Yongcheng
	卢 怡 LU Yi	吕利群 LÜ Liqun	平 瑛 PING Ying
	邱高峰 QIU Gaofeng	宋佳坤 SONG Jiakun	宋利明 SONG Liming
	唐炬明 TANG Juming	王锡昌 WANG Xichang	王永鼎 WANG Yongding
	吴启华 WU Qihua	谢 晶 XIE Jing	许柳雄 XU Liuxiong
	严兴洪 YAN Xinghong	杨正勇 YANG Zhengyong	张继平 ZHANG Jiping
	张效莉 ZHANG Xiaoli	章守宇 ZHANG Shouyu	钟俊生 ZHONG Junsheng
编 辑 部	Editorial Office	齐亚丽(主任) QI Yali(Chief)	张海宁 ZHANG Haining
		郭丰红 GUO Fenghong	叶宏玉 YE Hongyu
		陈洋洋 CHEN Yangyang	
英文编辑	Editor for English	赵大昌 ZHAO Dachang	

上海海洋大学学报
SHANGHAI HAIYANG DAXUE XUEBAO
(双月刊 1992 年创刊)
第 30 卷 第 4 期 2021 年 7 月

JOURNAL OF
SHANGHAI OCEAN UNIVERSITY
(Bimonthly Started in 1992)
Vol. 30, No. 4, July, 2021

主管单位	上海市教育委员会	Supervisor	Shanghai Municipal Education Commission
主办单位	上海海洋大学	Sponsor	Shanghai Ocean University
出版单位	《上海海洋大学学报》编辑部 (上海市浦东新区沪城环路999号 201306)	Editor & Publisher	Editorial Department for Journal of Shanghai Ocean University (999 Huchenghuan Rd., Pudong New District, Shanghai 201306, China)
	电子信箱 xuebao@shou.edu.cn	E-mail	xuebao@shou.edu.cn
	网址 http://www.shhydxxb.com	Website	http://www.shhydxxb.com
主 编	程裕东	Editor-in-chief	CHENG Yudong
印 刷	上海市崇明堡港印刷厂	Printed by	Shanghai Chongming Baogang Printing Co.,Ltd.
国内发行	上海市报刊发行局 (全国各地邮政局预订)	Domestic Distributor	Shanghai Bureau for Distribution of Newspapers & Journals (Subscribed by All Local Post Offices in China)
国外发行	中国国际图书贸易总公司 (北京 399 信箱)	Overseas Distributor	China International Book Trading Corporation (P. O. Box 399, Beijing, China)

ISSN 1674-5566
CN 31-2024/S

邮 发 代 号 : 4-604
国外发行号 : 4822Q

定价 : 25.00 元