

# 水产学报 2019 年 第 43 卷 第 9 期

## 目 次

### · 综述 ·

国内外海洋牧场发展历程与定义分类概述

····· 陈丕茂, 舒黎明, 袁华荣, 冯 雪, 佟 飞, 陈 权, 陈钰祥, 于 杰, 陈国宝, 余 景, 曾 雷, 黎小国 (1851)

中国海洋牧场研究现状与发展 ····· 李忠义, 林 群, 李 娇, 单秀娟 (1870)

人工鱼礁结构设计原理与研究进展 ····· 姜昭阳, 郭战胜, 朱立新, 梁振林 (1881)

### · 研究论文 ·

基于繁殖群体与补充群体结构特征的金乌贼资源增殖策略优化

····· 张秀梅, 王林龙, 张宇洋, 罗 刚, 高浩渊 (1890)

褐菖鲉幼鱼对贻贝养殖生境的利用规律初探

····· 汪振华, 钟佳明, 章守宇, 王 凯, 林 军, 张 健, 沈 慧 (1900)

莱州湾芙蓉岛人工鱼礁区鲛资源分布特征及其与环境因子的相关性分析

····· 王新萌, 盛化香, 刘淑德, 方光杰, 于浩林, 唐衍力, 梁振林 (1914)

威海西霞口海洋牧场鱼礁区中许氏平鲉的生长、死亡及合理利用

····· 张萌萌, 刘 岳, 解 涛, 陈文蕾, 唐衍力 (1925)

马鞍列岛人工鱼礁区鱼卵与仔稚鱼的群落结构

····· 印 瑞, 蒋日进, 毕远新, 张琳琳, 樊紫薇, 陈 磊, 隋宥珍, 王士聪 (1937)

马鞍列岛人工鱼礁修复海域沉积物重金属形态组成及垂直分布特征

····· 石一茜, 赵 旭, 俞锦辰, 林 军, 韩星雨, 刘 臻, 黄 宏 (1952)

人工鱼礁对中小型浮游动物昼夜变化的影响

····· 杜飞雁, 王亮根, 丁 玲, 宁加佳, 李亚芳, 徐 磊, 黄德练, 贾晓平 (1963)

象山港海洋牧场建设与生物资源的增殖养护技术

····· 王云龙, 李圣法, 姜亚洲, 章守宇, 胡庆松, 申屠基康, 焦海峰 (1972)

粤东柘林湾海洋牧场景观结构与格局的分析研究 ····· 段丁毓, 秦传新, 朱文涛, 马鸿梅 (1981)

海州湾海洋牧场水环境的承载力

····· 俞锦辰, 李 娜, 张 硕, 赵 旭, 兰 艳, 刘怡琳, 黄 宏 (1993)

大型海藻生境的生态功能及其在海洋牧场应用中的探讨

····· 章守宇, 刘书荣, 周曦杰, 汪振华, 王 凯 (2004)

水流作用下粉砂海床上人工鱼礁局部冲刷的模型试验与分析

····· 丁 玲, 王佳美, 唐振朝, 陈海刚, 贾晓平 (2015)

以数值实验为基础的米字型鱼礁布设模式差异下的流场效率

····· 郭 禹, 章守宇, 林 军 (2025)

两种人工鱼礁单体模型静态堆积效果 ····· 章守宇, 肖云松, 林 军, 周曦杰, 郭 禹 (2039)

2019 年中国水产学会范蠡学术大会

# JOURNAL OF FISHERIES OF CHINA

Vol.43, No.9, 2019

## CONTENTS

### • ROUNDUP •

Review on development, definition and classification of marine ranching in domestic and overseas

..... CHEN Pimao, SHU Liming, YUAN Huarong, FENG Xue, TONG Fei, CHEN Quan,  
CHEN Yuxiang, YU Jie, CHEN Guobao, YU Jing, ZENG Lei, LI Xiaoguo(1851)

Present situation and future development of marine ranching construction in China

..... LI Zhongyi, LIN Qun, LI Jiao, SHAN Xiujuan(1870)

Structural design principle and research progress of artificial reef

..... JIANG Zhaoyang, GUO Zhansheng, ZHU Lixin, LIANG Zhenlin(1881)

### • ARTICLES •

Strategy optimization of stock enhancement of golden cuttlefish (*Sepia esculenta*) based on structural characteristics of reproductive and recruitment populations

..... ZHANG Xiumei, WANG Linlong, ZHANG Yuyang, LUO Gang, GAO Haoyuan(1890)

Habitat use of juvenile rockfish (*Sebastes marmoratus*) in mussel farming waters: a preliminary study

..... WANG Zhenhua, ZHONG Jiaming, ZHANG Shouyu, WANG Kai, LIN Jun, ZHANG Jian, SHEN Hui(1900)

Distribution characteristics of *Liza haematocheila* and its relationship with environmental factors in Furongdao artificial reef zones Laizhou Bay, China

..... WANG Xinmeng, SHENG Huaxiang, LIU Shude, FANG Guangjie, YU Haolin, TANG Yanli, LIANG Zhenlin(1914)

Growth, mortality and reasonable utilization of *Sebastes schlegelii* in the artificial reef area of Weihai, Shandong Province

..... ZHANG Mengmeng, LIU Yue, XIE Tao, CHEN Wenlei, TANG Yanli(1925)

Community structure of fish eggs and larvae in artificial reef area of Ma'an Archipelago

..... YIN Rui, JIANG Rijin, BI Yuanxin, ZHANG Linlin, FAN Ziwei, CHEN Lei, SUI Youzhen, WANG Shicong(1937)

Assessment of the speciation and vertical distribution characteristics of heavy metals in sediments in artificial reef waters of Ma'an Archipelago

..... SHI Yiqian, ZHAO Xu, YU Jinchun, LIN Jun, HAN Xingyu, LIU Zhen, HUANG Hong(1952)

Effects of an artificial reef on diel changes of micro- and meso-zooplankton

..... DU Feiyan, WANG Lianggen, DING Ling, NING Jiajia, LI Yafang, XU Lei, HUANG Delian, JIA Xiaoping(1963)

Marine ranching and fishery stock enhancement in the Xiangshan Bay

..... WANG Yunlong, LI Shengfa, JIANG Yazhou, ZHANG Shouyu, HU Qingsong, SHEN TU Jikang, JIAO Haifeng(1972)

Research on landscape structure and pattern of marine ranching in Zhelin Bay, East Guangdong

..... DUAN Dingyu, QIN Chuanxin, ZHU Wentao, MA Hongmei (1981)

Water environment carrying capacity of Haizhou Bay marine ranching

..... YU Jinchun, LI Na, ZHANG Shuo, ZHAO Xu, LAN Yan, LIU Yilin, HUANG Hong(1993)

Ecological function of seaweed-formed habitat and discussion of its application to sea ranching

..... ZHANG Shouyu, LIU Shurong, ZHOU Xijie, WANG Zhenhua, WANG Kai(2004)

Experimental study and analysis of local scouring of artificial reef on silty sand bed under steady currents

..... DING Ling, WANG Jiamei, TANG Zhenzhao, CHEN Haigang, JIA Xiaoping(2015)

Flow field efficiency of Mi-zi artificial reefs in different construction modes based on numerical experiments

..... GUO Yu, ZHANG Shouyu, LIN Jun(2025)

Static accumulation effect of two artificial reef monomer models

..... ZHANG Shouyu, XIAO Yunsong, LIN Jun, ZHOU Xijie, GUO Yu(2039)