国家自然科学基金重大项目

中国东南沿海赤潮发生机理研究

（1990年3月至1994年3月）

论著目录及主要论文摘要

项目学术领导小组

一九九四年十二月

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目　录

第一课题论文目录

齐雨藻，吕颂辉，钱宏林，1991. 中国的赤潮和赤潮研究. 南京大学学报(自然科学版) 自然灾害成因与对策专辑. pp. 353-360.

Qi Yuzao, Lu Songhui and Qian Honglin, 1991. RED TIDES AND RED TIDE RESEARCH IN CHINA -- A PERSPECTIVE. Journal of Nanjing University (Natural Sciences Edition) Special issue on the causes and couter measure of Natural Disaster. pp. 353-360.

梁松，钱宏林，齐雨藻，1992. 赤潮研究的现状和有关问题. 生态科学, 1: 120 -126.

Liang Song, Qian Honglin, Qi Yuzao, 1992. RED TIDES STUDIES , ITS CURRENT SITUATION AND PROBLEMS. Ecologic Science, 1: 120 — 126

吕颂辉，齐雨藻，1992. 南海大鹏湾的主要赤潮生物. 暨南大学学报，13(3): 130-133.

Lu Songhui and Qi Yuzao. 1992. MAIN RED TIDE CAUSATIVE SPECIES OF DAPENGBAY, SOUTH CHINA SEA. Jounal of Jinan University, 13(3):130-133.

Qi Yuzao, 1992. AN OVERVIEW ON THE FOURTH INTERNATIONAL PHYCOLOGICAL CONGRESS. Int'l Academic Developments, I:84-85.

Qi Yuzao and Hong Ying, 1992. HORMFUL ALGAL BLOOMS GLOBAL INCREASING RAPIDLY. IBID, 4:13-14.

武宝 干，蒋海鹰，齐雨藻，藏汝波，1992. 几种海藻和赤潮藻的 DCMU 增益荧光比率及其与增殖数率的关系. 华南植物学报(试刊I)，73-79.

Wu Baogan, Jiang Haiying, Qi Yuzao and Zhang Rubo, 1992. DCMU- ENHANCED FLUORESCENCE RATIO AND ITS RELATION TO GROWTH RATE IN VARIOUS SEA WEEDSAND RED TIDE SPECIES. Bot. J. of South China, I: 73-79.

梁松，钱宏林，1993. 加强贝毒管理工作的探讨. 海洋通报，12(2): 83～88.

Liang Song and Qian Honglin, 1993. INCREASED STRENGTH NEEDED IN DEALING WITH SHELLFISH POISONING ASSOCIATED WITH PHYTOPLANKTON BLOOMS. Marine Science Bulletin, 12(2):83 — 88

林永水，周近明，1993. 南海甲藻. 科学出版社.

Lin Yongshui and Zhou Jinming, 1993. DINOFLAGELLATES IN THE SOUTH CHINA SEA. Scientifical and techology Press.

林永水，周近明，黎爱韶，1993. 盐田水域多纹膝沟藻赤潮发生的生态学研究. 热带海洋 12 (1):46-50.

Lin Yongshui, ZHou Jinming and Li Aishao, 1993. AN ECOLOGICAL STUDY ON THE OCCURRENCE OF THE RED TIDE OF *GONYAULAX POLYGRAMMA* IN YAN TIAN WATERS, DAPENG BAY. Tropic Oceanology. 12(1): 45-50

吕颂辉，齐雨藻，钱宏林，梁松. 1993. 南海港湾浮游植物与赤潮生物研究 I.水东港. 海洋通报. 12(2):52-56.

Lu Songhhui, Qi Yuzao, Qian Honglin and Liang Song. 1993. STUDIES ON PHYTOPLANKTON AND RED TIDE ORGANISMS IN EMBAYMENTS ON WEST GUANGDONG COAST I. SHUIDONG HARBOUR. Marine Science Bulletin, 12(2):52-56.

吕颂辉，齐雨藻，钱宏林，梁松. 1993. 南海港湾浮游植物与赤潮生物研究. II.广海湾 . 海洋通报. 12(2):57-62.

Lu Songhui, Qi Yuzao, Qian Honglin and Liang Song. 1993. STUDIES ON PHYTOPLANKTON AND RED TIDE ORGANISMS IN EMBAYMENTS ON CENTRAL GUANGDONG COAST II. GUANGHAI BAY. Marine Science Bulletin, 12(2):57-62.

钱宏林，吕颂辉，齐雨藻. 1993. 南海港湾浮游植物与赤潮生物研究 III. 镇海湾.海洋通报，12(2): 63-66.

Qian Honglin, Lu Songhui and Qi Yuzao, 1993. STUDIES ON PHYTOPLANNKTONS AND RED TIDE ORGANISMS IN EMBAYMENTS ON CENTRAL GUANGDONG COAST III. ZHENHAI BAY. Marine Science Bulletin, 12(2):63-66.

武宝 干，蒋海鹰，齐雨藻，1993. 两种赤潮藻对温度、氮、磷营养的反应及活体荧光特性的研究. 暨南大学学报. (自然科学版). 14(1):63-65.

Wu Baogan, Jiang Haiyin, and Qi Yuzao, 1993. STUDIES ON RESPONSE TO TEMPERATURE, NUTRIENTS AND THEIR *IN VIVO* FLUORENCE PROPERTIES OF TWO RED TIDE SPECIES. J. of Jinan Univ. (Nature Sci.). 14(1) :63-65.

郭玉洁，1994，大连湾赤潮生物—赤潮异弯藻，海洋与湖沼，25(2):211-215

Guo Yujie, 1994. STUDIES ON *HETEROSIGMA AKASHIWO* (HADA) HADA IN THE DALIAN BIGHT, LIAONING, CHINA, Oceanol, Limnol. Sinica 25(2), 211 -215.

林燕棠，杨美兰，陈瑞雯，胡石金，金桂英，1994. 广东沿海麻痹性贝类毒素的研究. 海洋与湖沼，25(2): 220-225.

Lin Yantang, Yang Meilan, Chen Ruiwen, Hu Shijin and Jin Guiying, 1994. STUDY ON PARALYTIC SHELLFISH POISON IN SHELLFISH FROM GUANGDONG COAST. Oceanologia et Limnologia Sinica, 25(2): 220-225.

吕颂辉，齐雨藻，钱宏林，梁松. 1994. 南海港湾(雷州湾)浮游植物与赤潮生物研究.暨南大学学报，15(1): 146-150.

Lu Songhui, Qi Yuzao, Qian Honglin and Liang Song. 1994. STUDIES ON PHYTOPLANKTION AND RED TIDE ORGANISMS IN EMBAYMENTSON WEST GUANGDONG COAST. 4. LEIZHOU BAY. Jounal of Jinan University. 15(1):146-150.

吕颂辉，齐雨藻，钱宏林，梁松. 1994. 南海港湾(安铺港)浮游植物与赤潮生物研究.暨南大学学报，15(1): 156-160.

Lu Songhui, Qi Yuzao, Qian Honglin and Liang Song. 1994. STUDIES ON PHYTOPLANKTON AND RED TIDE ORGANISMS IN EMBAYMENTS ON WEST GUANGDONG COAST 6. ANPU HARBOUR. Jounal of Jinan University, 15(1): 156-160.

吕颂辉，齐雨藻，钱宏林，梁松. 1994. 湛江港浮游植物与赤潮植物的初步研究. 海洋与湖沼，25(2): 190-196.

Lu Songhui, Qi Yuzao, Qian Honglin and Liang Song. 1994. STUDIES ON PHYTOPLANKTON AND RED TIDE CAUSATIVE SPECIES IN ZHANJIANG HARBOUR, SOUTH CHINA SEA. Oceanologia et Limnologia Sinica, 25(2): 190-196.

齐雨藻，朱从举，郭昌弼. 1994. 海洋原甲藻生长速率的测定. 暨南大学学报，15(1): 139-145.

Qi Yuzao, Zhu Congju and Guo Changbi. 1994. MEASUREMENT OF SPECIFIC GROWTH RATE OF *PROROCENTRUN MICANS*. Journal of Jinan University, 15(1): 139-145.

齐雨藻，钱锋，1994. 大鹏湾几种赤潮甲藻的分类学研究. 海洋与湖沼，25(2): 206-210.

Qi Yuzao and Qian Feng, 1994. TAXONOMIC STUDIES ON RED TIDE CAUSATIVE DINOFLAGELLATES IN DAPENG BAY, SOUTH CHINA SEA. Oceanologia et Limnologia Sinica, 25(2): 206-210.

齐雨藻，吕颂辉，钱宏林，梁松. 1994. 南海港湾(海陵湾)浮游植物与赤潮生物研究. 暨南大学学报，15(1): 151-155.

Qi Yuzao, Lu Songhui, Qian Honglin and Liang Song. 1994. STUDIES ON PHYTOPLANKTON AND RED TIDE ORGANISMS IN EMBAYMENTS ON WEST GUANGDON GCOAST. 5. HAILING BAY. Jounal of Jinan University, 15(1): 151-155.

杨美兰，陈瑞雯，胡石金，全桂英，1994. 广东沿海贝类不同组织器官中的麻痹性毒素. 海洋环境科学，13(1): 1－6.

张诚、邹景忠，1994，中国近海尖刺菱形藻种下分类的初步研究，海洋与湖沼，25(2): 216-219

Zhang Cheng and Zou Jingzhong, 1994. PRELIMINARY STUDY ON THE SUBSPECIFIC TAXONOMY OF *NITZSCHIA PUNGENS* GRUNOW IN CHINESE COASTAL WATERS, Oceanologia et Limnologia Sinica, 25(2): 216-219.

周名江，M. Elbrachter，1994. 两种涡鞭毛藻的周日垂直迁移特性研究. 海洋与湖沼，25(2): 1173-178.

Zhou Mingjiang and M. Elbrachter, 1994. DIURNAL VERTICAL MIGRATIONS OF TWO DINOFLAGELLATES. Oceanol. Limnol. Sinica 25(2): 173-178.

朱从举，齐雨藻，郭昌弼，1994. 铁，氮，磷，维生素 B_1和B_{12}对海洋原甲藻的生长效应. 海洋与湖沼，25(2): 168-172.

Zhu Congju, Qi Yuzao and Guo Changbi. 1994. THE EFFECT OF IRON, VITAMINS B_1, B_{12}

, NITROGEN AND PHOSPHORUS ON THE GROWTH OF *PROCENTRUM MICANS* . Oceanologia et Limnologia Sinica, 25(2): 168-172.

Qi Yuzao, Hong Ying, Qian Honglin and Lu Songhui, 1992. PROBLEMS CAUSED BY HARMFUL ALGAL BLOOMS IN CHINA. BMTC-POLRMAR, For Workshop Report, No. 94: 22-24.

Lin Yantang, Yang Meilan, Chen Ruiwen, Hu Shijin and Quan Guiying, 1993. PARALYTIC SHELLFISH POISONING FROM THE COAST OF GUANGDONG. 在第二届国际南海海洋生物学术讨论会上进行了大会交流.

Qi Yuzao, Zhang Jiaping, Hong Ying, Lu Songhui, Zhu Congju and Li Yaqing, 1993. OCCURRENCE OF RED TIDES ON THE COASTS OF CHINA. Toxic Phytoplankton Blooms in the Sea, eds. T. J. Smayda and Y. Shimizu. Elsevier Scienc Publishers, pp. 43-46.

C. K. TSENG, M. J. ZHOU and J. Z. ZOU, 1993, TOXIC PHYTOPLANKTON STUDIES IN CHINA. Toxic Phytoplankton Blooms in the Sea, eds. T. J. Smayda and Y. Shimizu, Elsevier Science Publishers. pp. 347- 352.

J. Z. Zou, M. J. Zhou and C. ZHANG, 1993, ECOLOGICAL FEATURES OF TOXIC *NITZSCHIA PUNGEN* SGRUNOW IN GHINESE COASTAL WATERS. Toxic Phytoplankton Blooms in the Sea, ed. T. J. Smayda and Y. Shimizu, Elsevier ScienerPublishors, pp. 651-656.

Hong Ying, Zhen Lei, Qi Yuzao and Donald M. Anderson, 1994. DINOFLAGELLATES AND RAPHIDOPHYCEAN CYSTS IN SOUTH CHINA SEA AND THEIR CHARACTERISTICS. Fifth Int'l Phycological Congress (Abstracts). pp. 14.

Lu Songhui and Qi Yuzao, 1994. THE ECOLOGICAL STUDIES ON RED TIDE CAUSATIVE ORGANISMS ON DAPENG BAY, SOUTH CHINA SEA. ibid(Abstracts), pp. 34.

Qi Yuzao, Zheng Lei and Hong Ying, 1994. DINOFLAGELLATE CYST DISTRIBUTION AND THEIR SEASONAL VARIABILITY IN DAYA BAY. ibid(Abstracts), pp. 34.

Qi Yuzao, Hong Ying, Qian Honglin and Lu Songhui, 1994. HARMFUL ALGAL BLOOMS IN THE COASTAL CHINA AND THEIR CONSEQUENTIAL PROBLEMS. XV Int'lBot. Congress (Abstracts). pp. 65.

Qi Yuzao, Lu Songhui and Zhu Congju, 1994. PHYTOPLANKTON SUCCESSION ANDRED TIDE ORGANISMS DYNAMICS IN DAPENG BAY SOUTH CHINA SEA. Fifth Int'l Phycological Congress (Abstracts), pp. 34.

Qi Yuzao, Wang Ju, Zheng Lei and Greta A, Fryxell, 1994. STUDIES ON *PSEUDONITZSCHIA* A POTENTIAL TOXIC DIATOM GENUS ON THE COASTAL CHINA. XV Int'l Bot. Congress (Abstracts)., PP. 34.

Qi Yuzao, Lu Songhui, Zhu Congju and Zheng Lei, 1994. ECOLOGY OF PHYTOPLANKTOIC DIATOMS IN DAPENG BAY, SOUTH CHINA SEA. 13" International Diatom Symposium, Italy, p. 12.

Qi Yuzao, Fryxell, G. A., Zhen lei and Wang Ju, 1994. THE TAXONOMY AND BLOOM ECOLOGY OF *PSEUDO NITZSHIA* ON THE COASTS OF CHINA. 13 " International Diatom

Symposium, Italy, p. 121.

Zhu Congju, Qi Yuzao and Tang Zhong, 1994. A COMPARATIVE STUDY ON NITRATER EDUCTASE ACTIVITIES OFF OUR RED TIDE CAUSATIVE PHYTOPLANKTONS. Fifth Int'l Phycological Congress (Abstracts), pp. 49.

第二课题论文目录

蔡子平，陈孝麟，庄栋法，吴省三，林昱，唐森铭和林荣澄，1991.海洋围隔生态系中叶绿素a的变化及其影响因素.台湾海峡，10(3):229—234。

Cai Ziping, Chen Xiaolin, Zhuang Dongfa, Wu Shengsan, Lin Yu, Tang Senming and Lin Rongcheng, 1991. Changes in chlorophyll-a and itsrelative factors in marine enclosure ecosystem. Journal ofOceanography in Taiwan Strait. 10(3):229—234.

陈汉辉，杞 桑，1991. 夜光藻摄食和营养繁殖的昼夜节律.暨南大学学报，12(3): 104-107.

Chen Hanhui, Qi Sang. 1991. The feeding and vetetagive reproduction diurnal rhythms of *Noctiluca scintillans*. J. Jinan University, 12(3):104-107.

林昱，陈孝麟，庄栋法，唐森铭和林荣澄，1992.围隔生态系内富营养引起赤潮的初步研究.海洋与湖沼，23(3):312—317。

Lin Yu, Chen Xiaolin, Zhuang Dongfa, Tang Senming and Lin Rongcheng, 1992. Preliminary study on red tide caused by nutrient enrichment inmarine enclosed ecosystem. Oceanologia et Limnologia Sinica, 23(3): 312 —317.

林昱，陈孝麟，庄栋法，吴省三，蔡子平，唐森铭和林荣澄，1992.海洋围隔生态系中赤潮发生前后浮游植物群落结构的初步分析.生态学报，12(3):213—218。

Lin Yu, Chen Xiaolin, Zhuang Dongfa, Wu Shengsan, Cai Ziping Tang Senming and Lin Rongcheng, 1992. Preliminary analysis for thestructures of phytoplankton community in a marine enclosed ecosystem before and after a red tide process. Acta Ecologica Sinica, 12(3):213—218.

陈孝麟，林昱，陈彬和蔡子平，1993.可溶性Fe对中尺度海洋围隔生态系中浮游生物群落数量变动的影响.台湾海峡，12(2):160—163。

Chen Xiaolin, Lin Yu, Chen Bin and Cai Ziping, 1993. Effects of dissolvable Fe on quantitative variation of plankton communities in marine mesocosms. Journal of Oceanography in Taiwan Strait, 12(2) :160 —163.

黄亚如，欧强，李锦蓉，钱宏林等，1993. 南海大鹏湾与大亚湾浮游动物的比较及其与赤潮的关系. 海洋通报，12(2): 46～51.

Huang Yaru, Ou Qiang, Li Jinrong, Qian Honglin, 1993. Comparison of zooplankton from Dapeng Bay and Daya Bay and Relationship between zooplankton and Red Tide. Marine Science Bulletin, 12(2): 46 — 51.

林 昱，庄栋法，唐森铭和陈孝麟，1993.海洋围隔生态系实验在厦门港赤潮发生机理研究中的应用. 亚洲海洋生物.

Lin Yu, Zhuang Dongfa, ChenXiaolin and Tang Senming. 1993. Marine enclosure ecosystem experiments on study the red tide mechanism processes in Xiamen

Habour. Asian Marine Biology.

林昱，庄栋法，唐森铭和陈孝麟，1993.围隔生态系中可溶性锰对两种形成赤潮藻类增殖的影响.海洋学报，15(4):91—97。

Lin Yu, Chen Xiaolin, Tang Senming, LinRongchen, Zhuang Dongfa, Wu Shengsan and Cai Ziping, 1993, Effects of dissolvable Mnon multiplication of two red tide algae species in eclosed marine ecosystem. Acta Oceanologica Sinica, 15(4): 91—96.

孙雷杞桑，1993. 桡足类刺尾纺锤水蚤(*Acartia spinicauda*)对赤潮生物海洋原甲藻(*Prorocentrum micans*)摄食的研究. 暨南大学学报，14(3): 74-79.

Sun Lei, Qi Sang. 1993. The feeding rate of copepoda *Acartia spinicauda* on *Prorocentrum micans* .J. Jinan University, 14(3): 74-79.

唐森铭，庄栋法，林昱和陈孝麟，1993.围隔生态系内富营养对水体营养盐结构的扰动. 海洋学报，15(2):135—140。

Tang Senming, Zhuang Dongfa, Chen Xiaolin and Lin Yu. 1993. The disturbance by eutrophication to the nutrient structure in enclosedsea water. Acta Oceanologica Sinica, 15(2):135—140.

江天久，杞桑，1994.广东深圳大亚湾的桡足类腹刺纺锤水蚤对链状亚历山大藻摄食的研究. 暨南大学学报，15(3):99-105.

Jiang Tianjiu, Qi Sang, 1994. The grazing of *Acartia spinicauda* Giesbrechton *Alexandriun catenella* Taylor in Dapen Bay, Guangdong. J. Jinan University , 15(3) :99-105.

林昱，庄栋法，陈孝麟和唐森铭，1994.初析赤潮成因研究的围隔实验结果——几个理化因子与硅藻赤潮的关系.海洋与湖沼，25(2):139—145.

Lin Yu, Zhuang Dongfa, Chen Xiaolin and Tang Senming, 1994. Preliminary study on red tide formation based on results from experimental ecosystem. The relationship between diatom red tide and some physical andchemical factors. Oceanologia et Limnologia Sinica. 25(2):139—145.

林昱，庄栋法，陈孝麟和唐森铭，1994. 添加维生素B_{12}对围隔生态系内浮游植物群落动态影响的初探.台湾海峡，13(1):32—36.

Lin Yu, Chen Xiaolin, Zhuang Dongfa and Tang Senming, 1994. Effects of vitamin B_{12} on phytoplanktonic community in marine enclosure ecosystem. Journal of Oceanography in Taiwan Strait, 10(3):32—36.

杞桑，李大勇，1994. 夜光藻的不等分裂. 海洋与湖沼，25(2):165-167.

Qi Sang, Li Dayong, 1994. Unequal cell divesion of *Noctiluca scintillans* . Oceanologia et Limnologia Sinica, 25(2):

吴玉霖，周成旭，长永山，1994. 夜光藻的室内培养，海洋与湖沼，25(2):165-167.

Wu Yulin, Zhou Chengxu, Zhang Yongshan. 1994. Laboratory culture of *Noctiluca scintillans* (Macartney). Oceanologia et Limnologia Sinica, 25(2): 165-167.

周成旭 吴玉霖 邹景忠，1994. 夜光藻的营养动力学. 海洋与湖沼，25(2):152--157.

Zhou Chengxu, Wu Yulin, Zou Jingzhong, 1994. Nutrient dynamics of *Noctiluca scintillans* (Macartney). Oceanologia et Limnologia Sinica, 25(2): 152-157.

周成旭 吴玉霖，1994. 夜光藻的繁殖. 海洋与湖沼，25(2):162-164.

Wu Yulin, Zhou Chengxu. 1994. Reproduction in *Noctiluca scintillans* (Macartney). Oceanologia et Limnologia Sinica, 25(2): 162-164.

第三课题论文目录

黄卓尔，杨秀环，郭越生，张展霞，1990. 石墨炉原子吸收直接法测定海水镍和钒. 中山大学学报(自然科学)论丛[20]，9(1)：189.

杨秀环，王志武，刘均焯，张展霞，1990. 石墨炉原子吸收法直接测定海水中的痕量硒. 痕量分析(论丛(一、二)，P.69.

Yang Xiuhuan, Huang Zhiwu, Liu Junzhuo, Zhang Zhanxia, 1990. Direct Determination of Mn in Seawater by Graphite Furnace Atomic Absorption Spectrometry. Trace Analysis, 1-2, 69.

杨秀环，唐宝英，刘均焯，张展霞，1990. 石墨炉原子吸收直接法测定海水河水钴. 中山大学学报(自然科学)论丛[20]，9(1)：183.

Yang Xiuhuan, Tang Baoying, Liu Junzhuo, Zhang zhanxia, 1990. Direct Determination of Cobalt in Seawater and River Water by Zeeman GFAAS. Supplement to the acta scientiarum, naturalium universitais sunyatseni<20>. 9(1):183

梁松，钱宏林，1991. 南海北部赤潮发生频率与季风转换时期关系的探讨. 南海研究与开发，3：1-5.

Liang Song, Qian Honglin, 1991. The Exploration of Relationship Between the Occurrence Frequency of Red Tide and the Period of the Monsoon Change in Northern South China Sea. Research and Exploit of South China Sea, 3: 1-5.

钱宏林，1991. 南海北部沿海的赤潮与赤潮研究. 暨南大学学报，12(3)：108-111.

Qian Honglin, 1991. Study on the Red Tide along Northern Coast of South China Sea. Journal of Jinan University, 12(3):108 — 111.

钱宏林，梁 松，齐雨藻，1991. 赤潮与埃尔尼诺(El Nino)关系的探讨. 暨南大学学报，12(3)：112～116.

Qian Honglin, Liang Song, Qi Yuzao, 1991. Discussion on the Relationship Between Red Tide and El Nino Phenomenon. Journal of Jinan University, 12(3):112 — 116

杨秀环，林敏红，臧成，张展霞，1991. 塞曼石墨炉原子吸收直接法测定海水中铁及消除污染的方法研究. "中国化学会第四届分析化学年会第三届无机微量技术与痕量分析学术讨论会" 论文摘要集，Eo39a.

Yang Xiuhuah, Lin Minhong, Zang Cheng, Zhang Zhanxia, 1991. The direct determination of Iron in Seawater by GFAAS.

洪君超，黄秀清，蒋晓山。1992，长江口赤潮多发区的一次中肋骨条藻赤潮现象观察，海洋环境科学，11(3)：75--79。

Hong Junchao, Huang Xiuqing, Jiang Xiaoshan. 1992, AN INVESTIGATION OF *SKELETONEMA COSTATUM* BLOOM IN RED TIDE FREQUENT OCCURRING WATERS OF CHANGJIANG ESTUARY, Marine Environmental Science, 11(3): 75--79.

蒋晓山，洪君超，王桂兰，黄秀清，吕颂辉。1992，长江口赤潮多发区夜光藻赤潮发生过程分析，暨南大学学报，(3)：134--139。

Jiang Xiaoshan, Hong Junchao, Wang Guilan, Huang Xiuqing, Lu Songhui. 1992, ANALYSIS OF *NOCTILUCA SCINTILLANS* RED TIDE OCCURRED IN RED TIDE FREQUENT AREA OF CHANGJIANG ESTUARY, Journal of Jinan University, (3): 134--139.

梁松，钱宏林，1992. 南海北部沿海赤潮发生频率与季风关系研究. 粤港赤潮学术研讨会论文集Ⅱ，5-9.

Liang Song, Qian Honglin, 1992. An Approach Study for the Red Tide Frequency and its Relationship to the Changing Period of the Monsoons inthe Northern South China Sea. Collected Papers of Colloquium on Red Tidein Hong Kong and South China Sea, Ⅱ, 5-9.

杨秀环，张展霞，刘均焯，黄学梅，1992. 海水赤潮与铁和钼含量关系探讨. 国际华裔学者分析化学研讨会论文集，A-29.

Yang Xiuhuan, Zhang Zhanxia, Liu Junzhuo, Huang Xuemei, 1992. Correlation Between The Red Tied And The Concentration Of Iron And MolybdenumIn Seawater. Proceedings of International Symposium of Overseas Chinese Scholars On Analytical Chemistry, A-29.

杨秀环，刘均焯，陶洁，张展霞，1992，石墨炉原子吸收直接法测定海水钼及其应用研究. "全国第四届原子光谱分析学术报告会" 论文摘要，P.168.

Yang Xiuhua, Liu Junzhuo, Tao Jie, Zhang Zhanxia, Studies on the direct determination of molybdenum in seawater by GFAAS and its applications

洪君超，黄秀清，蒋晓山，王桂兰。1993，崎山水域中肋骨条藻赤潮发生过程主导因子分析，海洋学报，(6)：135--141。

Hong Junchao, Huang Xiuqing, Jiang Xiaoshan, Wang Guilan. 1993, ANALYSES OF LEADING FACTORS DURING A *SKELETONEMA COSTATUM* RED TIDE OUTBREAK IN SHENSHAN WATERS. Acta Oceanologica Sinica, (6): 135--141.

黄亚如，欧强，李锦蓉，钱宏林，1993. 等南海大鹏湾与大亚湾浮游动物的比较及其与赤潮的关系. 海洋通报，12(2)：46～51.

Huang Yaru, Ou Qiang, Li Jinrong, Qian Honglin, 1993. Comparison of Zooplankton from Dapeng Bay and Daya Bay and Relationship between Zooplankton and Red Tide. Marine Science Bulletin, 12(2): 46 — 51.

李锦蓉，吕颂辉，梁松，1993. 大鹏湾、大亚湾营养盐含量与赤潮生物关系的初探. 海洋通报，12(2)：23-29.

Li Jinrong, Lu Songhui, Liang Song, 1993. Basic Study On The Relation Between Dapeng Bay, Daya Bay Nutrient Salt Content And Red Tide Organisms. Marine Science Bulletin, 12(2): 23-29.

梁舜华，张红标，1993. 盐田海域赤潮期间水质锰的变化规律. 海洋通报，12(20): 13-16.

Liang Shunhua, Zhang Hongbiao, 1993. Variation Regularity Of Manganese In Water During Red Tide Occurrence In Yantian Waters. Marine Science Bulletin, 12(2): 13-16.

林祖亨，梁舜华，1993. 大鹏湾盐田水域夜光藻赤潮形成与潮汐关系. 海洋通报，12(2): 35-38.

Lin Zuheng, Liang Shunhua , 1993. Relation Between The Red Tide Formation In Yantian Waters Of Dapeng Bay And Tide. Marine Science Bulletin, 12(2): 35-38.

钱宏林，梁 松，1993. 防治赤潮途径探讨. 海洋通报，12(2): 78～81.

Qian Honglin, LiangSong, 1993. Review of Methods of Preventing and Removing Red Tide. Marine Science Bulletin, 12(2): 78 — 81

梁松，钱宏林，1994. 防止或减少大鹏湾赤潮发生对策. 生态科学，2: 140-145.

Liang Song and Qian Honglin, 1994. Countermeasures of the Preventing and Decreasing Red Tide in Dapeng Bay. Ecologic Science, 2: 140-145.

钱宏林，梁 松，齐雨藻，1994. 南海北部沿海夜光藻赤潮的生态模式研究. 生态科学，1: 41-47.

Qian Honglin, Liang Song, Qi Yuzao, 1994. Study on Ecology Models of *Noctiluca Scientillans* Red Tide in North Coastal Waters of South China Sea. Ecologic Science, 1: 41-47.

王桂兰，黄秀清，蒋晓山，洪君超。1993，长江口中肋骨条藻赤潮的分布与特点，海洋科学，(3): 51--54.

Wang Guilan, Huang Xiuqing, Jiang Xiaoshan, Hong Junchao. 1993, THE DISTRIBUTION AND CHARACTERISTICS OF *SKELETONEMA COSTATUM* RED TIDE SOCCURRED IN CHANGJIANG ESTUARY, Marine Sciences, (3): 51--54.

谢健，李锦蓉，吕颂辉，程亲荣，杨炼锋，1993. 夜光藻赤潮与环境因子的关系. 海洋通报，12(2): 1-6.

Xie Jian, Li Jinrong, Lu Songhui, Cheng Qinrong, Yang Lianfeng, 1993. Relation Between *Noctiluca scientillans* and Environment Factors. Marine Science Bulletin, 12(2): 1-6.

阎玲，李锦蓉，1993. 大鹏湾盐田海域环境因子变化与赤潮生物相互关系研究. 海洋通报，12(2): 7-12.

Yan Ling, Li Jinrong, 1993. Study On The Interrelation Between Environment Factors Variation In Yantian Waters Of Dapeng Bay And RedTide Organisms. Marine Science Bulletin, 12(2): 7-12.

洪君超，黄秀清，蒋小山，王桂兰，1994. 长江口中肋骨条藻赤潮发生过程环境要素分析——营养盐状况. 海洋与湖沼，25(2)：179-184.

Hong Junchao, Huang xiuqing, Jiang Xiaoshan and Wang Guilan, 1994. Analysis of Environmental Factors During Occurrence of *Skeletonemacostatum* Red Tide in Changjing River Estuary——The Nutrient State. Oceanologia et Limnologia Sinica, 25(2): 179-184.

黄良民，钱宏林，李锦蓉，1994. 大鹏湾赤潮多发区的叶绿素a分布与环境关系初探. 海洋与湖沼，25(2)：197-205.

Huang Liangmin, Qiang Honglin, Li Jinrong. 1994. Preliminary Studies on the Relationships between Chlorophyll-a and Environmental Factors in Dapeng Bay. Oceanologia et Limnologia Sinica, 25(2): 197-205

王小平，贾晓平，周国君，胡石金，宗志伦，1994. 大鹏湾南澳水域氮磷及溶解氧的分析研究. 海洋通报，13(1)：44-45.

Wang Xiaoping, Jia Xiaoping, Zhou Guojun, Hu Shijin, Zong Zhilun, 1994. Nitrogen phosphorus and dissolved oxygen in Nan'ao waters of Dapeng Bay. Marine Science Bulletin 13 (1): 44-50.

第四课题论文目录

齐雨藻，黄伟健，邱璇鸿，1991．大鹏湾夜光藻种群动态的时间序列模型 ．暨南大学学报，12(3)：96-103.

Qi Yuzao, Huang Weijian, Qiu Xuanhong, 1991. Population dynamic time series models of *Noctiluca scintillans* in Dapeng Bay. Journal of Jinan University, 12(3): 96 — 103.

黄伟健，齐雨藻，邱璇鸿，1992．大鹏湾夜光藻种群动态机理模型辨识。生态学报．12（3）：206—212.

Huang Weijian, Qi Yuzao, Qu Xuanhong, 1992. The identification of a mechanism model on the population dynamics of *Noctiluca Scintillans* in the Dapeng Bay in the South China Sea. Acta Ecologica Sinica. 12(3): 206—212.

乐军，王寿松，1992．一类藻类生长的积分微分方程的稳定性与分支。 中国工业与应用数学学会（CSIAM）第二次大会文集．P. 109～112.

Le Jun, Wang Shousong, 1992. Stability and bifurcation for anintegrodifferential equation in phytoplankton growth. Proceedings of the Second Conference of the Chinese Society of Industry and Applying Mathematics. P. 109—112.

王寿松，1992．关于赤潮的微分方程的数学模型．生物数学．1（1）：53—58.

Wang Shousong, 1992. On mathematical models in differential equations for red tides. Biomathematics. 1(1): 53—58.

王寿松，1992．海洋赤潮的生态数学模型．中国工业与应用数学学会（CSIAM）第二次大会文集．P. 583-585.

Wang Shousong, 1992. On mathematical models of red tides. Proceedings of the Second Conference of the Chinese Society of Industry and Applying Mathematics. P. 583-585.

冯国灿，王寿松，黄承正，原炽麟，夏综万，史建辉，陈桂兰，1993．南海赤潮数据管理系统．海洋通报．12（2）：73～77.

Feng Guocan, Wang Shousong, Huang Chengzheng, Yuan Chilin, Xia Zongwan, Shi Jianhui and Chen Guilan, 1993. Marine Science Bulletin. 12(2): 73—77.

黄伟建，齐雨藻，1993．大鹏湾海水理化因子对夜光藻生长影响的因子分析． 海洋通报．12（2）：17～22.

Huang Weijian, Qi Yuzao, 1993. Environmental influence on growth of *Noctiluca scintillans* in Dapeng Bay, North of South China Sea. Marine Science Bulletin, 12(2): 17-22.

齐雨藻，楚建华，黄奕华，1993．诱发海洋褐胞藻赤潮的环境因素分析．海洋通报．12（2）：30～34.

Qi Yuzao, Chu Jianhua, Huang Yihua, 1993. Environmental element impact ontriggering off *Chattonella marina* bloom. Marine Science Bulletin. 12(2): 30—34.

王寿松，冯国灿，夏综万，史键辉，齐雨藻，吕颂辉，1994．大鹏湾夜光藻赤潮发生要素的结构分析．海洋与湖沼．25(2)：146—151.

Wang Shousong, Feng Guocan, Xia Zongwan, Shi Jianhui, Qi Yuzao, Lu Songhui, 1994. Structural analysis of the essential factors associated with the *Noctiluca scintillans* red tide in Dapeng Bay. Oceanologia et Limnologia Sinica. 25(2): 146 — 151.

夏综万，王寿松，1993．北海海洋浮游生物生态数学模型．海洋通报，12(2)：67—72.

Xia Zongwan, Wang Shousong, 1993. Summary on mathematical models of ecology of marine planktons in the North Sea. Marine Science Bulletin. 12(2): 67—72.

王寿松，1994．大鹏湾夜光藻赤潮生态模型定性分析．中国工业与应用数学学会(CSIAM)第三次大会文集，p. 370-374.

Wang Shousong, 1994. Qualitative Analysis of Ecology Model for the *Noctiluca scintillans* Red Tide in Dapeng Bay. Proceedings of the Third Conference of the Chinese Society of Industry and Applying Mathematics, p. 370-374.