

# 周成旭个人简历

## Chengxu Zhou — Curriculum Vitae



工作单位：宁波大学食品与药学学院

**Affiliation:** College of Food and Pharmaceutical Sciences at Ningbo University

职称/职务：研究员

**Position:** Professor

学位**Degree:** 硕士Master

学科方向：海洋药物学

**Discipline:** Marine Pharmacy

邮箱 **Email:** zhouchengxu@nbu.edu.cn

### 教育与工作经历 **Education and Professional Experience:**

1986.09-1990.06: 青岛海洋大学（现中国海洋大学）生物系 理学硕士

Ocean University of Qingdao (Ocean University of China),  
Bachelor in Marine Biology.

1990.07-1993.06: 中国科学院海洋研究所 生态室 理学硕士

Institute of Oceanology, Chinese Academy of Sciences, Qingdao,

Master's degree in Marine Biology.

1993.07-2002.02: 中国科学院海洋研究所 生态室 助理研究员

Institute of Oceanology, Chinese Academy of Sciences, Qingdao,  
Shandong, Assistant researcher.

1997-1998: 日本环境资源研究所重点研究助理

National Institute of Environment and Resources, Tsukuba, Japan.  
Visiting researcher

2003-2016.11: 宁波大学海洋学院 副研究员

Ningbo University, College of Marine Sciences, Associate professor.

2014.01-2014.06: 美国马里兰大学, 访问学者

Institute of Marine and Environmental Technology (IMET),  
University of Maryland Center for Environmental Science, Visiting  
scientist

2014.07-2014.12: 美国加州大学圣巴巴拉分校, 访问学者

The University of California, Santa Barbara (UCSB), USA, Visiting  
scientist

2016.12-2018.06: 宁波大学海洋学院 研究员

Ningbo University, College of Marine Sciences, Professor

2018.07-present: 宁波大学食品与药学学院 研究员

Ningbo University, College of Marine Sciences, Department of  
Marine Pharmacy, Professor.

## 研究方向 **Research Interest:**

1. 微藻生物技术、生理生态学与生物化学

Microalgal Biotechnology, Ecophysiology and Biochemistry

2. 微型藻类的保藏和应用

Microalgae Collection and Application in marine aquaculture, functional food and natural products discovery

3. 有毒有害藻华

Toxic and harmful algal blooms

4. 海水养殖生态学

Marine aquaculture ecology

## 主持科研项目 **Research Grants:**

1. 国家科技部（MOST）重点研发计划课题，滩涂养殖系统生源要素的生物地球化学循环特征与生态效应(2018YFD0900702), 2018.12-2022.12, 657 万元。
2. 国家科技部（MOST）重点研发计划子课题，饵料微藻新对象生态适应性与安全性评价（2018YFD0901504-03），2018.12-2022.12，45 万元。
3. 国家科技部（MOST）星火计划重点项目，海藻功能性生物肥产业链技术集成与示范（2015GA701001），2015.12-2017.12，100 万元。
4. 国家自然科学基金(NSFC)面上项目，围塘养殖模式环境对颗石藻 (*Pleurochrysis carterae*)增殖的影响及其藻华的生态效应（40776064），2007.09-2011.05，33 万元。

5. 国家自然科学基金(NSFC)青年项目, 夜光藻的氮代谢及其暴发性增殖生化机理研究, 1996-1998, 7 万元。
6. 国家海洋局 (SOA) 公益项目子课题, 海洋微藻制备生物柴油耦合 CO2 减排技术与示范 (GHME2001SW02), 2011.12-2013.08, 20 万元
7. 浙江省自然科学基金(Zhejiang NSF), 基于颗石藻与卤虫相互关系的微藻抗捕食化学防御研究 (LY12D06001), 2012.01-2016.04, 8 万元。
8. 浙江省自然科学基金(Zhejiang NSF), 浙江海区鱼毒性赤潮种类赤潮异弯藻的毒性特征和机理研究 (Y504083), 2004.12-2008.06, 2 万元。
9. 国家海洋局 (SOA) 重点实验室开放基金项目, 东海典型养殖区剧毒卡罗藻的生态型多样性研究 (LMEB201705), 2018.01-2019.12, 3 万元。

#### **荣誉奖项 Awards:**

1. 浙江省科技进步一等奖, 2006 年。  
Science and Technology Advance Award of Zhejiang Province Government, First Prize, 2006.
2. 宁波市科技进步一等奖, 2006 年。  
Science and Technology Advance Award of Ningbo City Government, First Prize, 2006.
3. 宁波市科技进步二等奖, 2008 年。  
Science and Technology Advance Award of Ningbo City Government, Second Prize, 2008.

## 主讲课程 Teaching Experience

1. 海洋生物毒素 Marine Biotoxins
2. 毒理学基础 Toxicology
3. 微型藻类分子生态学 Molecular Ecology of Microalgae

## 论文列表 Selected Publications:

1. Hai-Long Huang, Qian-Wen Shao, Xiao-Juan Zhu, Jie Luo, Ran Meng, **Cheng-Xu Zhou**, Peng Zhu\*, Yi-Feng Zhu, Xiao-Jun Yan\*, Distribution of *Karlodinium veneficum* in the coastal region of Xiangshan Bay in the East China Sea, as detected by a real-time quantitative PCR assay of ribosomal ITS sequence, Harmful algae, **2019**, 81, 65-76.
2. ZHU Xiaojuan, LUO Jie, **ZHOU Chengxu**\*, WANG Jianyuan, MENG Ran, XU Jilin, CHEN Juanjuan, LUO Qijun, YAN Xiaojun\*. Changes of pigments and lipids composition in *Haematococcus pluvialis* vegetative cell as affected by monochromatic red light compared with white light. Journal of Oceanology and Limnology, **2018**, 36(6): 2257-2267.
3. YANG Xiaoqian , WEN Xin, **ZHOU Chengxu**\* , ZHU Xiaojuan, MENG Ran, LUO Qijun, YAN Xiaojun\* . Comparative study of brine shrimp bioassay-based toxic activities of three harmful microalgal species that frequently blooming in aquaculture ponds. Journal of Oceanology and Limnology, **2018**, 36(5): 1697-1706. (9月)
4. Juan Su, Mengwei Ye, Yamin Lou, Zhiming Yang, Tiancheng Sun, Runtao Zhang, Jilin Xu, **Chengxu Zhou**, Xiaojun Yan. Low-molecular-mass organic acid and lipid responses of *Isochrysis galbana* Parke to high temperature stress during the entire growth stage. Algal Research, **2017**, 26: 93-103.
5. Runtao Zhang, Zhouyan Kong, Sihan Chen, Zhaoshou Ran, Mengwei Ye, Jilin Xu, **Chengxu Zhou**, Kai Liao, Jiayi Cao, Xiaojun Yan. The comparative study for physiological and biochemical mechanisms of *Thalassiosira pseudonana* and *Chaetoceros calcitrans* in response to different light intensities. Algal Research, **2017**, 27: 89–98.
6. Hai-Long Huang, Peng Zhu, **Cheng-Xu Zhou**, Xiao-Jun Yan, Yi-Xin Zou, Pei-Wen Lv. Detection of *Skeletonema costatum* based on loop-mediated isothermal amplification combined with lateral flow dipstick. Molecular and Cellular Probes, **2017**, 36: 36-42.
7. Liao K, Chen W, Zhang R, Zhou H, Xu J, **Zhou C**, Yan X. qPCR analysis of bivalve larvae feeding preferences when grazing on mixed microalgal diets. PLoS ONE, **2017**, 12(6): e0180730.
8. Yanyan Zhang, Wenjie Zhao, Zifei Chen, Zhixiong Liu, Huiliang Cao, **Chengxu Zhou**, Ping Cui, Influence of biomimetic boundary structure on the antifouling performances of siloxane modified resin coatings, Colloids and Surfaces A: Physicochemical and Engineering Aspects. Colloids and Surfaces A. **2017**, 528: 57-64.
9. Mengwei Ye, Lijing Zhang, Panpan Xu, Runtao Zhang, Jilin Xu, Xiaokai Wu, Juanjuan Chen,

- Chengxu Zhou**, Xiaojun Yan. Simultaneous analysis of ten low-molecular-mass organic acids in the tricarboxylic acid cycle and photorespiration pathway in *Thalassiosira pseudonana* at different growth stages. *J. Sep. Sci.*, **2017**, 40: 635-645.
10. Hai-Long Huang, Peng Zhu, **Cheng-Xu Zhou**, Shan He, Xiao-Jun Yan. The development of loop-mediated isothermal amplification combined with lateral flow dipstick for detection of harmful algae: *Karlodinium veneficum*. *Harmful Algae*, **2017**, 62: 20-29.
  11. Lili Huang, Jilin Xu, Chunguang Zong, Si Zhu, Mengwei Ye, **Chengxu Zhou\***, Haimin Chen, Xiaojun Yan. Effect of high temperature on the lipid composition of *Isochrysis galbana* Parke in logarithmic phase. *Aquacult Int*, **2017**, 25:327-339.
  12. Xiaoyan He, Yi Liu, Yongfeng Gong, **Chengxu Zhou**, Hua Li. Autoclaving-induced in-situ grown alumina on arc-sprayed aluminum coatings: Multiscaled topography facilitates antifouling performances. *Surface & Coatings Technology*, **2017**, 309: 295-300.
  13. Pengjie Cai, Shan He, **Chengxu Zhou**, Allen R. Place, Saddef Haq, Lijian Ding, Haimin Chen, Ying Jiang, Cheng Guo, Yaru Xu, Jinrong Zhang, Xiaojun Yan. Two new karlotoxins found in *Karlodinium veneficum* (strain GM2) from the East China Sea. *Harmful Algae*, **2016**, 58: 66–73.
  14. Yan Li, **Chengxu Zhou**, Xiaojun Yan, Jilin Xu. Simultaneous analysis of ten phytohormones in *Sargassum horneri* by high-performance liquid chromatography with electrospray ionization tandem mass spectrometry. *Journal of separation science*. 2016. *J. Sep. Sci.* **2016**, 00, 1–10.
  15. CHEN Xianfeng, ZHOu Qianjin, DuAN Weijun, **ZHOu Chengxu**, DuAN Lijun, ZHANG Huili. SuN Aili, YAN Xiaojun, CHEN Jiong. Development and evaluation of a DNA microarray assay for the simultaneous detection of nine harmful algal species in ship ballast and seaport waters. *Chinese Journal of Oceanology and Limnology*, **2016**, 34 (1): 86-101.
  16. Shasha Geng, **Chengxu Zhou\***, Wenbi Chen, Shanshan Yu, Wei Huang, Tao Huan, Jilin Xu\*, Xiaojun Yan. Fatty acid and sterol composition reveal food selectivity of juvenile ark shell *Tegillarca granosa* Linnaeus after feeding with mixed microalgae. *Aquaculture*, **2016**, 455:109-117.
  17. Zifei Chen, Wenjie Zhao, Mengting Mo, **Chengxu Zhou**, Gang Liu, Zhixiang Zeng, Xuedong Wu and Qunji Xue. Architecture of modified silica resin coatings with various micro/nano patterns for fouling resistance: microstructure and antifouling performance. *Royal society of chemistry advances*, 2015, 5, 97862–97873.
  18. **ZHOu Chengxu**, LUO Jie, YE Yangfang, YAN Xiaojun, Liu Baoning, WEN Xin. The metabolite profiling of coastal coccolithophorid species *Pleurochrysis carterae* (Haptophyta). *Chinese Journal of Oceanology and Limnology*. **2016**, 34(4):749-756.
  19. **Chengxu Zhou**, Allen R. Place, Xiaojun Yan\*, Jilin Xua, Qijun Luo, Ernest William, Ying Jiang. Interactions between *Karlodinium veneficum* and *Prorocentrum donghaiense* from the East China Sea. *Harmful Algae*, **2015** (49): 50-57.
  20. Shuang Li, Jilin Xu, Ying Jiang, **Chengxu Zhou**, Xuejun Yu, Yingying Zhong, Juanjuan Chen, Xiaojun Yan. Lipidomic analysis can discriminate between two morphologically alike strains of *Nannochloropsis oceanica*. *Journal of Phycology*. **2015**, (51): 264-276 .
  21. Shuang Li, Jilin Xu, Jiao Chen, Juanjuan Chen, **Chengxu Zhou**, Xiaojun Yan. The major lipid changes of some important shellfish diet microalgae during the entire growth phase. *Aquaculture*, **2014**, 428-429: 104-110.

22. Shuang Li, Jilin Xu, Jiao Chen, Juanjuan Chen, **Chengxu Zhou**, Xiaojun Yan. Characterization of the triacylglycerol profile in marine diatoms by ultra performance liquid chromatography coupled with electrospray ionization–quadrupole time-of-flight mass spectrometry. *Journal of Applied Phycology*. **2014**, 26(3): 1389-1398.
23. Shuang Li, Jilin Xu, Jiao Chen, Juanjuan Chen, **Chengxu Zhou**, Xiaojun Yan. Structural elucidation of co-eluted triglycerides in the marine diatom model organism *Thalassiosira pseudonana* by ultraperformance liquid chromatography/quadrupole time-of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry*. **2014**, 28(3): 245–255.
24. Fang Zhao, Jilin Xu, Juanjuan Chen, Xiaojun Yan, **Chengxu Zhou**, Shuang Li, Xiaoyan Xu and Fangting Ye. Structural elucidation of two types of novel glycosphingolipids in three strains of *Skeletonema* by liquid chromatography coupled with mass spectrometry. *Rapid Communications in Mass Spectrometry*. **2013**, 27(13): 1535-1547.
25. Xiaoling Su, Jilin Xu, Xiaojun Yan, Peng Zhao, Juanjuan Chen, **Chengxu Zhou**, Fang Zhao, Shuang Li. Lipidomic changes during different growth stages of *Nitzschia closterium* f. *minutissima*. *Metabolomics*. **2013**, 9(2): 300-310.
26. Jilin Xu, Haibo Zhou, Xiaojun Yan, **Chengxu Zhou**, Peng Zhu, Bin Ma. Effect of unialgal diets on the composition of fatty acids and sterols in juvenile ark shell *Tegillarca granosa* Linnaeus. *Journal of Agricultural and Food Chemistry*. **2012**, 60(15): 3973–3980.
27. Jilin Xu, Haibo Zhou, Xiaojun Yan, **Chengxu Zhou**, Peng Zhu, and Bin Ma. Effect of Unialgal Diets on the Composition of Fatty Acids and Sterols in Juvenile Ark Shell *Tegillarca granosa* Linnaeus. *J. Agric. Food Chem.* **2012**, 60, 3973–3980.
28. **Zhou Chengxu**, Jiang Ying, Liu Baoning, Yan Xiaojun, Zhang Wendong. The relationship between calcification and photosynthesis in the coccolithophorid *Pleurochrysis carterae*. *Acta Ecologica Sinica*, **2012**, 32: 38-43.
29. Xiaojun Yan, Deying Chen, Jilin Xu, **Chengxu Zhou**. Profiles of photosynthetic glycerolipids in three strains of *Skeletonema* determined by UPLC-Q-TOF-MS. *Journal of Applied Phycology*. **2011**, 23(2): 271-282.
30. **Chengxu Zhou**, Nuria Fernández, Haiming Chen, Yurong You, Xiaojun Yan\*. Toxicological studies of *Karlodinium micrum* (Dinophyceae) isolated from East China Sea. *Toxicon*, **2011**, 57: 9-18.
31. Jilin Xu, Deying Chen, Xiaojun Yan, Juanjuan Chen, **Chengxu Zhou**. Global Characterization of the Photosynthetic Glycerolipids from a Marine Diatom *Stephanodiscus* sp. by Ultra Performance Liquid Chromatography coupled with Electrospray-ionization-Quadrupole-Time of Flight Mass Spectrometry. *Analytica Chimica Acta*. **2010**. 663(1): 60-68.
32. Jilin Xu, Deying Chen, Xiaojun Yan, Juanjuan Chen, **Chengxu Zhou**. Global characterization of the photosynthetic glycerolipids from a marine diatom *Stephanodiscus* sp. by ultra performance liquid chromatography coupled with electrospray ionization-quadrupole-time of flight mass spectrometry. *Analytica Chimica Acta*, **2010**, 663: 60-68.
33. **ZHOU Cheng-Xu**, XU Ji-Lin, YAN Xiao-Jun, HOU Yun-Dan, JIANG Ying. Analysis of Dimethylsulfide and Dimethylsulfoniopropionate in Marine Microalgae Culture. *Chin J Anal Chem*, **2009**, 37(9), 1308–1312.

## 授权发明专利（第一发明人） Selected Patents（First author）：

专利名称	发明人	授权公告日	专利号
一种有效分离多种微藻种质的新方法	周成旭 严小军 骆其君 马斌 裴鲁青	2009.2.4	ZL2005100605946
一种夜光藻活细胞的定量浓缩器（1）	周成旭 刘宝宁 严小军 蒋莹 骆其君	2013.4.24	ZL 201110325704.2
一种夜光藻活细胞定量浓缩方法	周成旭 刘宝宁 严小军 蒋莹 骆其君	2013.7.13	ZL 201110326043.5
一种促进自养微藻中性脂累积的培养方法	周成旭 严小军 骆其君 王建沅 文欣	2015.2.4	ZL 201310331939.1
软件著作权登记证书：微藻种质管理系统平台（简称 NAlgae）V1.0	周成旭 严小军 林忠洲 高瑜	2018.5.18	证书编号 2018SR450756