

Shuwen Zhang

Coastal Marine Lab, The Hong Kong University of Science and Technology

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Education

- 2011.9 – 2016.6 The Hong Kong University of Science and Technology
Ph.D. in Life Science
- 2008.9 – 2011.6 Jinan University
M.S. in Environmental Engineering
- 2004.9 – 2008.6 Hunan University
B.S. in Environmental Science

Academic Interests

Algal bloom • Plankton ecology • Trophic interaction • Stoichiometry

Experience

➤ Research

The Hong Kong University of Science and Technology

Posdoc **2016.3 – 2017.8**

Project: **1)** Effect of temperature on the growth and grazing of mixotrophic dinoflagellate; **2)** Effect of the silica content of diatoms on protozoan grazing.

PhD **2011.6 – 2016.6**

Project: Ecophysiological study of *Noctiluca scintillans*, a red tide-causing dinoflagellate in Hong Kong coastal waters (RGC 2011-2013).

Supervisor: **Hongbin Liu**

Jinan University

Master **2004.9 – 2008.6**

Project: **1)** The mixotrophic mechanism of the red tide forming dinoflagellates (National Natural Science Foundation of China, 40806058); **2)** Mechanisms of HAB Succession and its Impacts on the Ecological Safety along China coasts (National Basic Research Program, 2010CB428702).

Supervisor: **Linjian Ou, Jufang Cheng**

➤ Teaching

- 2013.9 – 2014.9 Teaching assistant coordinator
- 2012.1–2012.5 Teaching assistant for Animal Physiology laboratory
- 2013.1– 2013.5 Teaching assistant for Animal Physiology laboratory

➤ Cruise

- 2012.10 – 2013.4 Conducted field survey in Port Shelter, Hong Kong for half a year.
- 2010.5 Attended the MC 2010-1 cruise of National Basic Research Program in East China Sea for 1 month
- 2009.11 Attended a cruise in South China Sea for half a month

Publications

1. **Zhang S**, Liu H, Glibert P, Guo C, Ke Y (2017). Effects of prey of different nutrient quality on elemental nutrient budgets in *Noctiluca scintillans*. Scientific Report 7(1):7622.
2. **Zhang S**, Harrison P, Song S, Chen M, Lau W, Guo C, Wu C-J, Xu J, Liu H (2017) Population dynamics of *Noctiluca scintillans* during a bloom in a semi-enclosed bay in Hong Kong. Marine Pollution Bulletin 121(1):238-248.
3. **Zhang S**, Liu H, Ke Y, Li B (2017). Effect of diatom silica content on protozoan grazing. Frontiers in Marine Science 4:202.
4. Ng, W.H.A., Liu, H., **Zhang, S.** (2017). Diel variation of grazing of the dinoflagellate *Lepidodinium* sp. and ciliate *Euplotes* sp. on algal prey: the effect of prey cell properties. Journal of Plankton Research 39:450-462.
5. **Zhang S**, Chan K, Shen Z, Cheung S, Landry M, Liu H (2016). A Cryptic Marine Ciliate Feeds on Progametes of *Noctiluca scintillans*. Protist 168: 1-11.
6. **Zhang S**, Liu H, Guo C, Harrison P (2016). Differential feeding and growth of *Noctiluca scintillans* on monospecific and mixed diets. Marine Ecology Progress Series 549:27-40.
7. **Zhang S**, Liu H, Chen B, Wu C-J (2015) Effects of diet nutritional quality on the growth and grazing of *Noctiluca scintillans*. Marine Ecology Progress Series 527:73-85.
8. Guo C, Liu H, Yu J, **Zhang S**, Wu C-J (2014) Role of microzooplankton grazing in regulating phytoplankton biomass and community structure in response to atmospheric aerosol input. Marine ecology progress series 507:69-79.
9. **Zhang S**, Zhang Y, Ou L, Qi Y, Lu S (2012) Study on phagotrophic behavior of 6 harmful dinoflagellates on fluorescent labeled algae. Oceanologia ET Limnologia Sinica 43:602-608 (Chinese Journal with English Abstract).
10. Ou L, Zhang Y, **Zhang S**, Lu S (2012) Response of phytoplankton to phosphorus in the upwelling zone of southern Taiwan Strait. Journal of Shenzhen University Science and Engineering 2:148-153 (Chinese Journal with English Abstract).
11. **Zhang S**, Ou L, Lu S, Chen J (2011) Effects of light and nutrients on the phagotrophic behaviors of three harmful dinoflagellates. Marine Science 35:94-99 (Chinese Journal with English Abstract).

Conferences

1. The 8th International Conference on Marine Pollution and Ecotoxicology. Hong Kong, June 2016

Poster: “Population dynamics of *Noctiluca scintillans* during a bloom in a semi-enclosed bay in Hong Kong”

2. "Ocean Biogeochemistry" Gordon Research Conference. Hong Kong, June 2016
Poster: "Effects of prey of different nutrient quality on elemental nutrient budgets in *Noctiluca scintillans*"
3. "Marine Molecular Ecology" Gordon Research Conference. Hong Kong, Aug 2015.
4. ASLO 2015 Aquatic Science Meeting. Granada, Spain. Feb 2015
Poster: "Differential feeding by *Noctiluca scintillans* on monospecific and mixed diets"
5. Second Xiamen Symposium on Marine Environmental Sciences (2nd XMAS). Xiamen, China. Jan 2015
Poster: "Effects of diet nutritional quality on the growth and grazing of *Noctiluca scintillans*"
6. Croucher Summer Course on Climate Change and Marine Ecosystems. Hong Kong. June 2013 (Poster Presentation)
Poster: "Effects of diets on the growth and grazing of *Noctiluca scintillans*"