

2023

1. Deng, L., **Cheung, S.***, Xu, Z., Liu, K., & Liu, H.* (2023) Microzooplankton grazing exerts a strong top-down control on unicellular cyanobacterial diazotrophs. *Journal of Geophysical Research: Biogeosciences*, 128(12), e2023JG007824. (impact factor=3.7, rank=62/202)
2. Xia, X., **Cheung, S.**, Zhang, S., Lu, Y., Leung, S. K., Shi, Z., ... & Liu, H. (2024). *Noctiluca scintillans* bloom alters the composition and carbohydrate utilization of associated bacterial community and enriches potential pathogenic bacterium *Vibrio anguillarum*. *Water Research*, 249, 120974. (impact factor=12.8, rank=1/103)
3. Lu, Y., **Cheung, S.**, Koh, X. P., Xia, X., Jing, H., Lee, P., ... & Liu, H. (2023). Active degradation-nitrification microbial assemblages in the hypoxic zone in a subtropical estuary. *Science of The Total Environment*, 904, 166694. (impact factor=9.8, rank=26/275)
4. Liu, K., Nishioka, J., Chen, B., Suzuki, K., **Cheung, S.**, Lu, Y., Wu, H., and Liu, H. (2023) Role of nutrients and temperature in shaping distinct summer phytoplankton and microzooplankton population dynamics in the western North Pacific and Bering Sea. *Limnology and Oceanography*, **68**: 649-665. (impact factor=4.5, rank=5/63)

2022

5. **Cheung, S.+**, Liu, K.+ , Turk-Kubo, K., Nishioka, J., Suzuki, K., Landry, M., Zehr, J., Leung, S., Deng, L., and Liu, H. (2022) High biomass turnover rates of endosymbiotic nitrogen-fixing cyanobacteria in the western Bering Sea. *Limnology and Oceanography Letters*, **7(6)**: 501-509. (impact factor=8.507, rank=2/66)
6. Turk-Kubo, K., Gradoville, M., **Cheung, S.**, Cornejo-Castillo, F., Harding, K. J., Morando, M., Mills, M., and Zehr, J. (2022) Non-cyanobacterial diazotrophs: Global diversity, distribution, ecophysiology, and activity in marine waters. *FEMS Microbiology Reviews*, <https://doi.org/10.1093/femsre/fuac046>. (impact factor=15.177, rank=12/137)
7. Xu, Z., **Cheung, S.**, Endo, H., Xia, X., Wu, W., Chen, B., Ho, N., Suzuki, K., Li, M., and Liu, H. (2022) Assembly processes and controlling factors in phytoplankton communities across the Pacific Ocean. *mSystems*, **7(1)**: e01203-21. (impact factor=7.328, rank=27/137)
8. Gu, B., Liu, J., **Cheung, S.**, Ho, N. H. E., Tan, Y., and Xia, X. (2022) Insights into Prokaryotic Community and Its Potential Functions in Nitrogen Metabolism in the Bay of Bengal, a Pronounced Oxygen Minimum Zone. *Microbiology Spectrum*, e00892-21. (impact factor=9.043, rank=20/137)
9. Zhang, X., **Cheung, S.**, Wang, J., Zhang, G., Wei, Y., Liu, H., Sun, J., and Liu, H. (2022) Highly diverse *Synechococcus* pigment types in the Eastern Indian Ocean. *Frontiers in Microbiology*, **13**:806390. (impact factor=6.064, rank=34/137)
10. Acevedo-Trejos, E., Cadier, M., Chakraborty, S., Chen, B., **Cheung, S.**, Grigoratou, M., ... and Prowe, F. (2022) Modelling approaches for capturing plankton diversity (MODIV), their societal applications and data needs. *Frontiers in Marine Science*, **9**: 975414. (impact factor=5.247, rank=6/133)
11. Liu, H., Zhou, P., **Cheung, S.**, LU, Y., Jing, H., and Liu, H. (2022) Distribution and oxidation rates of ammonia-oxidizing archaea influenced by the coastal upwelling off eastern Hainan Island. *Microorganisms*, **10(5)**: 952. (impact factor=4.926, rank=54/137)
12. Feng, M., Lin, S., Zhang, W., Wang, C., Liu, H., **Cheung, S.**, Li, H., Stukel, M, Irving, J., and Li, N. (2022) Micro-/Meso-Scale Distinction and Horizontal Migration of Tintinnid (Ciliophora: Tintinnida) Assemblages in Three Regions Around the North Pacific Ocean. *Frontiers in Marine Science*, **9**: 863549. (impact factor=5.247, rank= 6/133)

2021

13. **Cheung, S.**, Zehr, J.P., Xia, X., Tsurumoto, C., Endo, H., Nakaoka, S., Mak, W., Suzuki, K., and Liu, H. (2021) Gamma4: a genetically versatile Gammaproteobacterial *nifH* phylotype that widely distributed in the North Pacific Ocean. *Environmental Microbiology*, **23**: 4246-4259. (impact factor=5.476, rank=42/137)

14. Cheung, Y., **Cheung, S.**^{*}, Mak, J., Liu, K., Xia, X., Yung, Y., Zhang, X., and Liu, H.^{*} (2021) Distinct interaction effects of warming and anthropogenic input on diatoms and dinoflagellates in an urbanized estuarine ecosystem. *Global Change Biology*, **27**: 3463-3473. (impact factor=13.212, rank= 1/65)
15. Deng, L. , **Cheung, S.**^{*}, Kang, C., Liu, K., Xia, X., and Liu, H.^{*} (2021) Elevated temperature relieves phosphorus limitation of marine unicellular diazotrophic cyanobacteria. *Limnology and Oceanography*, **67**: 122-134. (impact factor=5.019, rank=4/66)

2020

16. **Cheung, S.**, Nitantai, R., Tsurumoto, C., Endo, H., Nakaoka, S., Cheah, W., Lorda, J., Xia, X., Liu, H., and Suzuki, K. (2020) Physical forcing controls the basin-scale occurrence of nitrogen-fixing organisms in the North Pacific Ocean. *Global Biogeochemical Cycles*, **34(9)**: e2019GB006452. (impact factor=6.500, rank= 16/202)
17. Lu, Y.⁺, **Cheung, S.**⁺, Chen, L., Kao, S. J., Xia, X., Gan, J., Dai, M., and Liu, H. (2020). New insight to niche partitioning and ecological function of ammonia oxidizing archaea in subtropical estuarine ecosystem. *Biogeosciences*, **17**: 6017–6032. (impact factor=5.092, rank= 34/202)
18. Deng, L.⁺, **Cheung, S.**⁺, and Liu, H. (2020) Protistal grazers increase grazing on unicellular cyanobacteria diazotroph at night. *Frontiers in Marine Science*, **7**: 135. (impact factor=5.247, rank= 6/133)
19. Xia, X., Lee, P., **Cheung, S.**, Lu, Y., Tan, Y., and Liu, H. (2020) Discovery of euryhaline phycoerythrobilin-containing *Synechococcus* and their mechanisms for adaptation to estuarine environments. *mSystems*, **5**: e00842-20. (impact factor=7.328, rank=27/137)
20. Zhang, S., Li, C., **Cheung, S.**, Sun, M., Song, S., Guo, W., Guo, C., Wu, G., and Liu, H. (2020) Snapshot of peptidomics of the red tide forming species *Noctiluca scintillans*. *Frontiers in Marine Science*, **7**:569807. (impact factor=5.247, rank= 6/133)
21. Zhang, S., Xia, X., Ke, Y., Song, S., Shen, Z., **Cheung, S.**, and Liu, H. (2020) Population dynamics and interactions of *Noctiluca scintillans* and *Mesodinium rubrum* during their successive blooms in a subtropical coastal water. *Science of the Total Environment*, **755**: 142349. (impact factor=10.754, rank= 26/279)
22. Rocke, E., **Cheung, S.**, Gebe, Z., Dames, N., Liu, H., and Moloney, C. (2020) Marine microbial community composition during the upwelling season in the Southern Benguela. *Frontiers in Marine Science*, **7**: 255. (impact factor=5.247, rank= 6/133)
23. Xia, X., Leung, S. K., **Cheung, S.**, Zhang, S., and Liu, H. (2020). Rare bacteria in seawater are dominant in the bacterial assemblage associated with the bloom-forming dinoflagellate *Noctiluca scintillans*. *Science of The Total Environment*, **711**: 135107. (impact factor=10.754, rank= 26/279)

2019

24. **Cheung, S.**, Suzuki, K., Xia, X., and Liu, H. (2019) Transportation of diazotroph community from the upstream to downstream of the Kuroshio. *Journal of Geophysical Research: Biogeosciences*, **124(9)**: 2680-2693. (impact factor=4.432, rank= 49/202)
25. **Cheung, S.**, Mak, W., Xia, X., Lu, Y., Cheung, Y., and Liu, H. (2019) Overlooked genetic diversity of ammonia oxidizing archaea lineages in the global oceans. *Journal of Geophysical Research: Biogeosciences*, **124(7)**: 1799-1811. (impact factor=4.432, rank= 49/202)
26. Xia, X., **Cheung, S.**, Endo, H., Suzuki, K., & Liu, H. (2019). Latitudinal and vertical variation of *Synechococcus* assemblage composition along 170° W transect from the South Pacific to the Arctic Ocean. *Microbial Ecology*, **77**: 333-342. (impact factor=4.192, rank= 12/113)
27. Tan, S., **Cheung, S.**, Ho, T. Y., and Liu, H. (2019). Metatranscriptomics of the bacterial community in response to atmospheric deposition in the Western North Pacific Ocean. *Marine Genomics*, **45**: 57-63. (impact factor=2.143, rank= 138/175)

28. Lu, Y., Xia, X., **Cheung, S.**, Jing, H., and Liu, H. (2019). Differential distribution and determinants of ammonia oxidizing archaea sublineages in the oxygen minimum zone off Costa Rica. *Microorganisms*, **7(10)**: 453. (impact factor=4.926, rank=54/137)
29. Li, Y., Jing, H., Xia, X., **Cheung, S.**, Suzuki, K., and Liu, H. (2018) Metagenomic insights into the microbial community and nutrient cycling in the Western Subarctic Pacific Ocean. *Frontiers in Microbiology*, **9**: 623. (impact factor=6.064, rank=34/137)