

PERSONAL DATA

Li-Chun Tseng, Ph.D., D.Sc. (曾立鈞)

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Affiliation: Assistant research fellow at the Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan.



Experienced in sedimentation pollution effects on soft coral in coastal areas. Expertise in field of zooplankton and copepod ecological studies. Interested in oceanography related subjects, such as, migration, distribution, toxic effects, global issues about oceanic acidification, warming, blooming, as well as artificial environmental impact on marine biology.

EDUCATION & EXPERIENCES

Experience:

Feb 2023– Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan. Assistant Research Fellow

Sep 2009–Jan 2023 Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan. Postdoctoral fellow

Jul 1990–Aug 2009 Department of Laboratory Medicine, Mackay Memorial Hospital, Danshuei District, New Taipei City, Taiwan. Medical laboratory scientist

Education:

Sep 1998–Jan 2008 Ph. D., Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan.

Sep 1996–Jun 1998 Master D., Institute of Marine Biology, National Taiwan Ocean University, Keelung, Taiwan.

Sep 1995–Jun 1996 Department of Biology, Chinese Culture University, Taipei, Taiwan.

Sep 1983–Jun 2008 Department of Medical Laboratory Science and Biotechnology, Chung Hwa College of Medical Technology, Tainan County, Taiwan.

RESEARCH INTERESTS

1. Marine pollution and coral reefs
2. Marine Ecology: zooplankton and planktonic copepods
3. Ecological research on shallow hydrothermal vent areas
4. Marine biodiversity, and coral reef symbionts

EDITORIAL BOARD/ACADEMIC REFEREE

1. *Frontiers in Marine Science* (Associate Editor)

2. Discover Oceans (Editorial Board Members)

3. Journal reviews: (2020–2024):

Scientific Reports, Continental Shelf Research, PLOS ONE, Frontiers in Ecology and Evolution, Frontiers in Marine Science, Regional Studies in Marine Science, Journal of Natural History, Journal of Oceanography, Journal of Experimental Marine Biology and Ecology, Journal of the Marine Biological Association of the United Kingdom, Journal of Marine Science and Technology, International Journal of Aquatic Science, International Journal of Advance Agricultural Research ... etc.

PUBLICATIONS (Refereed, 2020-2024)

1. Anitha Mary Davidson, **Li-Chun Tseng**, Yan-Guo Wang, Jiang-Shiou Hwang. (2024, Aug). Mortality of mesozooplankton in an acidified ocean: Investigating the impact of shallow hydrothermal vents across multiple monsoonal periods. *Marine Pollution Bulletin*, 205, 116547.
2. Gowri Krishna Giriya, **Li-Chun Tseng**, Yu-Ling Chen, Pei-Jie Meng, Jiang-Shiou Hwang, Ying-Ning Ho. (2023, Oct). Microbiome variability in invasive coral (*Tubastraea aurea*) in response to diverse environmental stressors.. *Frontiers in Marine Science*, 10, 1234137.
3. Ammu Sankar Senan, Chia-Hsin Hsu, Shih-Wei Lee, Lo-Yu Chang, **Li-Chun Tseng**, Adiel A. Klomp maker, Jih-Pai Lin. (2023, Sep). Predator-prey interactions based on drill holes: A case study of turritelline gastropods from the Pleistocene Szekou Formation of Taiwan.. *Earth and Environmental Science Transactions of The Royal Society of Edinburgh*, 114(1-2), 167-175.
4. Yen-Zhen Tan, Li-Chia Liu, **Li-Chun Tseng**, Showe-Mei Lin (2023, May). Reproductive phenology of a dominant crustose coralline alga, *Sporolithon* sp., from Taoyuan algal reefs in Northwest Taiwan. *Phycologia*, 62(6), 574-584.
5. Yiming V. Wang, Thomas Larsen, Mario Lebrato, **Li-Chun Tseng**, Pei-Wen Lee, Nicolas Sanchez, Juan-Carlos Molinero, Jiang-Shiou Hwang, Tin-Yam Chan, Dieter Garbe-Schonberg (2023, Mar). Foraging under extreme events: Contrasting adaptations by benthic macrofauna to drastic biogeochemical disturbance. *Functional Ecology*, 37(5), 1390-1406.
6. Yan-Guo Wang, **Li-Chun Tseng**, Xiao-Yin Chen, Rou-Xin Sun, Peng Xiang, Bing-Peng Xing, Chun-Guang Wang, Jiang-Shiou Hwang (2023, Feb). Cold dome affects mesozooplankton communities during the southwest monsoon period in the Southeast East China Sea. *Journal of Marine Science and Engineering*, 2023(11), 508.
7. Sun-Hee Lee, **Li-Chun Tseng**, Yang Ho Yoon, Eduardo Ramirez-Romero, Jiang-Shiou Hwang, Juan Carlos Molinero (2023, Jan). The global spread of jellyfish

hazards mirrors the pace of human imprint in the marine environment. *Environment International*, 171, 107699.

8. **Li-Chun Tseng**, Parinya Limviriyakul, Jiang-Shiou Hwang (2022, Nov). Macrosymbionts of starfish *Echinaster luzonicus* (Gray, 1840) in the waters of a volcanic western Pacific island.. *PLoS ONE*, 17(11), e0278288.
9. Yan-Guo Wang, **Li-Chun Tseng**, Rou-Xin Sun, Xiao-Yin Chen, Peng Xiang, Chun-Guang Wang, Bing-Peng Xing, Jiang-Shiou Hwang (2022, Sep). Copepods as indicators of different water masses during the northeast monsoon prevailing period in the Northeast Taiwan.. *Biology*, 11(9), 1357
10. **Li-Chun Tseng**, Juan Carlos Molinero, Qing-Chao Chen, Jiang-Shiou Hwang (2022, Jul). Community structure of zooplankton during the southwest-northeast monsoon transition period in the Southeastern East China Sea. *Crustaceana*, 95(5-6), 667-694.
11. Yan-Guo Wang, **Li-Chun Tseng**, Bing-Peng Xing, Rou-Xin Sun, Xiao-Yin Chen, Chun-Guang Wang, Jiang-Shiou Hwang. (2021, Aug). Seasonal Population Structure of the Copepod *Temora turbinata* (Dana, 1849) in the Kuroshio Current Edge, Southeastern East China Sea.. *Applied Sciences*, 11, 7545.
12. Pei-Wen Lee, Shih-Hui Hsiao, Chi Chou, **Li-Chun Tseng**, Jiang-Shiou Hwang (2021, Mar). Zooplankton fluctuations in the surface waters of the estuary of a large subtropical urban river. *Frontiers in Ecology and Evolution*, 9, 598274.
13. Lizhe Cai, Sujing Fu, Xiping Zhou, **Li-Chun Tseng**, Jiang-Shiou Hwang (2020, Aug). Benthic meiofauna with emphasis on nematode assemblage response to environmental variation in the intertidal zone of the Danshuei River estuary, northwest Taiwan. *Ecological Research*, 35(5),857-870.
14. Mario Lebratoa, Dieter Garbe-Schonberg, Marius N. Muller, Sonia Blanco-Ameijeiras, Richard A. Feely, Laura Lorenzoni, Juan-Carlos Molinero, Karen Bremer, Daniel O. B. Jones, Debora Iglesias-Rodriguez, Dana Greeley, Miles D. Lamare, Aurelien Paulmier, Michelle Graco, Joan Cartes, Joana Barcelos eRamos, Ana de Lara, Ricardo Sanchez-Leal, Paz Jimenez, Flavio E. Papparazzo, Susan E. Hartman, Ulrike Westernstroer, Marie Kuter, Roberto Benavides, Armino F. da Silva, Steven Bell, Chris Payne, Solveig Olafsdottir, Kelly Robinson, Liisa M. Jantunen, Alexander Korablev, Richard J. Webster, Elizabeth M. Jones, Olivier Gilg, Pascal Bailly du Bois, Jacek Beldowski, Carin Ashjian, Nejib D. Yahia, Benjamin Twining, Xue-Gang Chen, **Li-Chun Tseng**, Jiang-Shiou Hwang, Hans-Uwe Dahms, Andreas Oschlies (2020, Aug). Global variability in seawater Mg:Ca and Sr:Ca ratios in the modern ocean. *Proceedings of the National Academy of Sciences of the United States of America*, 117(36), 22281-22292.
15. **Li-Chun Tseng**, Yan-Guo Wang, Guang-Shan Lian, Jiang-Shiou Hwang (2020, Jun). A multi-year investigation of the Temoridae (Copepoda, Calanoida) assemblage succession within the interplay waters of the northern South China Sea. *Crustaceana*,

93(3-5), 519–540.

16. Yan-Guo Wang, **Li-Chun Tseng**, Rou-Xin Sun, Zhi-Yong Liu, Mao Lin, Jiang-Shiou Hwang (2020, Jun). Effects of the China Coastal Current on the community structure of planktonic copepods in early spring, with notes on *Eurytemora pacifica* Sato, 1913 in the western Taiwan Strait. *Crustaceana*, 93(3-5), 487–506.
17. Kandasamy Kalimuthu, **Li-Chun Tseng**, Kadarkarai Murugan, Chellasamy Panneerselvam, Al Thabiani Aziz, Giovanni Benelli, Jiang-Shiou Hwang (2020, May). Ultrasonic technology applied against mosquito larvae. *Applied Sciences*, 10, 3546.
18. Parinya Limviriyakul, **Li-Chun Tseng**, Yu-Hung Tsai, Jiang-Shiou Hwang, Tung-Wei Shih (2020, May). Baseline diversity and host relationships of symbiotic caridean shrimps on the coast of northern Taiwan, southern East China Sea, prior to the establishment of a conservation area. *Marine Biodiversity*, 50,35.
19. **Li-Chun Tseng**, Pin-Yi Yu, Jiang-Shiou Hwang (2020, Mar). Distribution and sexual dimorphism of the crab *Xenograpsus testudinatus* from the hydrothermal vent field of Kueishan Island, northeastern Taiwan. *PLoS ONE*, 15(3), e0230742.
20. Fei Zhu, Wen-Hung Twan, **Li-Chun Tseng**, Shao-Hung Peng, Jiang-Shiou Hwang (2019, Dec). First detection of white spot syndrome virus (WSSV) in the mud shrimp *Austinopecten edulis* in Taiwan. *Scientific Reports*, 9, 18572.
21. Mario Lebrato, Yiming V. Wang, **Li-Chun Tseng**, Eric P. Achterberg, Xue-Gang Chen, Juan-Carlos Molinero, Karen Bremer, Ulrike Westernstroer, Emanuel Soding, Hans-Uwe Dahms, Marie Kuter, Verena Heinath, Janika Johnck, Kostas I. Konstantinou, Yiing J. Yang, Jiang-Shiou Hwang, Dieter Garbe-Schonberg (2019, Nov). Earthquake and typhoon trigger unprecedented transient shifts in shallow hydrothermal vents biogeochemistry. *Scientific Reports*, 9, 16926.
22. **Li-Chun Tseng**, Shih-Pin Huang, Shagnika Das, I-Shiung Chen, Kwang-Tsao Shao, Jiang-Shiou Hwang (2019, Jul). A slender symbiotic goby hiding in burrows of mud shrimp *Austinopecten edulis* in western Taiwan. *PLoS ONE*, 14(7), e0219815.
23. Yan-Guo Wang, **Li-Chun Tseng**, Mao Lin, Jiang-Shiou Hwang (2019, Jul). Vertical and geographic distribution of copepod communities at late summer in the Amerasian Basin, Arctic Ocean.. *PLoS ONE*, 14(7), e0219319.
24. Shagnika Das, **Li-Chun Tseng**, Chi Chou, Lan Wang, Sami Souissi, Jiang-Shiou Hwang (2019, Mar). Effects of cadmium exposure on antioxidant enzymes and histological changes in the mud-shrimp *Austinopecten edulis* (Crustacea: Decapoda).. *Environmental Science and Pollution Research*, 26(8), 7752-7762.