

► **Positions:**

Associate professor from 1991 to 1996

Professor since 1996

Director of the institute of Marine Biology, National Taiwan Ocean University from 1997 to 2000

The distinguished Professor of National Taiwan Ocean University (2013.08~).

► **Awards and Honor:**

The distinguished Alumni award from National Sun Yet San University, Taiwan (2005)

The distinguished research award from Biological Society of China, (Taiwan, 2006).

"Odum Ecological gold medal award" from Vinoba Bhave University, India (2009).

The distinguished research award from National Taiwan Ocean University (2010).

The distinguished service and contribution award from Chinese Ocean & Underwater Technology Association (2011).

The distinguished research award from College of Life Sciences, National Taiwan Ocean University (2011).

The distinguished service and contribution award from Chinese Ocean & Underwater Technology Association (2013).

The distinguished Professor of National Taiwan Ocean University (2013-2016).

The distinguished research award from College of Life Sciences, National Taiwan Ocean University (2013).

“Bharathiar Environmental Award” from Bharathiar University, India (2013).

The distinguished service and contribution award from Chinese Ocean & Underwater Technology Association (2014).

The distinguished Professor of National Taiwan Ocean University (2016-2019).

“Life Time Achievement Award” from Thiruvalluvar University (2019).

The distinguished Professor of National Taiwan Ocean University (2019-2022).

[Taiwan-France Scientific Foundation Prize 2020.](#)

The distinguished Alumni award from TUNGHAI University, Taiwan (2022)

The distinguished Professor of National Taiwan Ocean University (2022-2025)

► **Academic Activities:**

1. Organizer and Chairman of the third annual conference on Coral Reefs, Taiwan, ROC in March, 1995 (Participating scientists of 150)
2. Director of master (about 45 master students in the program) and doctoral programs (about 30 Ph. D. students in the program) at the institute of Marine Biology, National Taiwan Ocean University from 1997 to 2000
3. Organizer and Chairman of the International Symposium on Marine Biology in Taiwan-Crustacean and Zooplankton Taxonomy, Ecology and Living Resources 26-27 May 1998 (Participating scientists of 270)
4. Editor-in-chief of National Taiwan Museum Special Publication Series No. 10 (2000): Proceedings of the International Symposium On Marine Biology in Taiwan-Crustacean and Zooplankton Taxonomy, Ecology and Living Resources 26-27 May 1998
5. Editorial board of Journal of Sea Technology (Taiwan) in Chinese.
6. Co-editors of Journal of Sea Technology (Taiwan) special issue on the Application

- of Optical and Electrical Technology in Marine Research (2004), Volume 13 (4). PP. 44.
7. Co-editors of Journal of Sea Technology (Taiwan) special issue on the Scubar Diving Practice and Application (2006), Volume 15 (4). PP. 40
 8. Co-editors of Journal of Sea Technology (Taiwan) special issue on the Application of Optical and Electrical Technology in Marine and Underwater Research (2006), Volume 16 (2). PP.48
 9. Chairman of Local Organizing Committee, 8th International Conference On Copepoda, from 1999 to 2002.
 10. Chairman of 8th International Conference On Copepoda, July 2002 (Participating scientists of 250 from 51 countries).
 11. Executive Council Member of World Association of Copepodologists from 2002 to 2005.
 12. Executive Council Member of World Association of Copepodologists from 2005 to 2008.
 13. International Organizing Committee Member of 9th International Conference on Copepoda 2002 to 2005.
 14. International Organizing Committee Member of 10th International Conference on Copepoda 2005 to 2008.
 15. Chairman of Copepod Behavior Symposium on 9th International Conference on Copepoda 2005
 16. Editor-in-chief of Zoological Studies (2004) : Proceedings of the 8th International Conference On Copepoda
 17. Co-editor: Hwang, J.-S., C.-T. Chen, K.-K. Lee and C.-L. Pan, (eds.), 2004, Ecological Survey on Nuclear Power Plants in Taiwan, Journal of Marine Science and Technology, Vol.12, No.5, P.355-464.
 18. External examiner for master and Ph. D. degree of Chinese University of Hong Kong.
 19. External examiner for master and Ph. D. degree of National Taiwan University, Taiwan.
 20. External examiner for master and Ph. D. degree of National Taiwan Ocean University, Taiwan.
 21. External examiner for master degree of National Sun Yat-Sen University, Taiwan
 22. External examiner for master degree of National Chung-Hsin University, Taiwan
 23. External examiner for master degree of Tunghai University, Taiwan
 24. Invited speaker in EGU meeting at Nice, France on April 27, 2004 topic of "A pilot study of observing copepod swarming in the coral reefs of Taiwan by underwater laser video optical system in situ"
 25. Invited speaker at Great Lakes WATER Institute, University of Wisconsin-Milwaukee, USA, on April 8, 2004, Topic of " The Underwater Ecological Survey on Turtle Island, Taiwan".
 26. Invited speaker at Wimereux Marine Station, CNRS; University of Science and Technology at Lille, France, on July 1, 2004, Topic of " Copepod swarming in the coral reefs of Taiwan: A pilot study using an underwater NIR laser video optical system in situ ".
 27. Co-guest editors of Journal of Plankton Research (2007): Proceedings of the 9th International Conference On Copepoda special issue in Journal of Plankton Research (2007).
 28. Organizer and Chairman of 2009 Taiwan and Italy Conference on Marine Biology, Keelung, Taiwan, 25-26 May, 2009.
 29. Organizer and Chairman of International Conferences on Dormancy in crustaceans: research findings and applications, Keelung, Taiwan, 6 October, 2009.

30. Organizer and Chairman of International Conferences on Zooplankton behavior, ecology and aquaculture, Keelung, Taiwan, 7-8 October, 2009.
31. Advisory editorial board of *Hydrobiologia* (2010)
32. Vice-President of the World Association of Copepodologists 2011 to 2014.
33. President of Taiwan Branch, Asian Fisheries Society (2013.05~2019.04).
34. The distinguished Professor of National Taiwan Ocean University (2013-2019).
35. Editorial board of *Journal of Experimental Marine Biology and Ecology* (2014-2016)
36. Editorial board of *PLOS ONE* since 2014

► Publications

A. 期刊論文

2025

1. Consigna, M. J. S., L.-C. Tseng, C. Chou, C.-W. Huang, Y.-T. Shao and J.-S. Hwang*, 2025. Pathological and biochemical effects of polyethylene microplastic exposure in hydrothermal vent crab, *Xenograpsus testudinatus*. *Marine Pollution Bulletin*, 212: 117546. (SCI).

2024

2. Dhanker, R., A. Saxena, A. Tiwari, P. K. Singh, A. K. Patel, H.-U. Dahms, J.-S. Hwang, G. M. Gonzalez-Meza ´, E. M. Melchor-Martínez, H. M.N. Iqbal, R. Parra-Saldívar, 2024. Towards sustainable diatom biorefinery: Recent trends in cultivation and applications. *Bioresource Technology*, 391, 129905. (SCI).
3. Kumar, R., R. Dhanker, J. H. P. Ame ´rico-Pinheiro, D. Kumar and J.-S. Hwang, 2024. Editorial: Effects of microplastics on ecosystem functioning of eukaryotic marine microbes. *Frontiers in Ecology and Evolution*, 12:1390158. (SCI). doi: 10.3389/fevo.2024.1390158.
4. Thirunavukkarasu, S., G. Murugan, J.-S. Hwang* and N. Munuswamy, 2024. Morphology and morphometry of morphotypes in the population of *Artemia franciscana* (Kellogg, 1906) from salterns of the southeastern coast of India. *Heliyon*, Available online 21 April 2024, e29796. (SCI).
5. Mudigonda, S., P. Atturu, H.-U. Dahms, J.-S. Hwang* and C.-K. Wang, 2024. Evaluation of antibiofilm activity of metal oxides nanoparticles and carbon nanotubes coated styrofoam on the bacterium *Jeotaglicoccus huakuii*. *Water Research*. 259: 121810. (SCI).
6. Kong, L., Y.-J. Pan, J.-S. Hwang*, 2024. Multigenerational effects of glyphosate-based herbicide and emamectin benzoate insecticide on the reproduction and gene expression of the copepod *Pseudodiaptomus annandalei* (Sewell 1919). *Chemosphere*. 361: 142423. (SCI).
7. Davidson, A. M., L.-C. Tseng, Y.-G. Wang and J.-S. Hwang*, 2024. Mortality of mesozooplankton in an acidified ocean: Investigating the impact of shallow hydrothermal vents across multiple monsoonal periods. *Marine Pollution Bulletin*, 205: 116547. (SCI).
8. Thirunavukkarasu, S. and J.-S. Hwang*, 2024. Genotoxic effects of marine pollutants on coastal meso-zooplankton populations - a mini review. *Marine Pollution Bulletin*, 205: 116548. (SCI).
9. Yang, D. Y., S. Zeng, Z. Wang, Y. J. Zhang, D. Z. Yang, C. J. Glasby, J.-S. Hwang* and L. Z. Cai, 2024. Molecular systematics of *Perinereis* and an investigation of the status and relationships of the cultured species *Perinereis wilsoni* Glasby & Hsieh, 2006 (Annelida, Nereididae). *Zoosystematics and Evolution*, 100 (4) 2024, 1297-1314. (SCI).
10. Wang, L., X. Y. Cheng, Y. Z. Guo, J. W. Cao, M. Y. Sun, J.-S. Hwang, R. L. Liu and J. S. Fang, 2024. Novel isolates of hydrogen-oxidizing chemolithoautotrophic *Sulfurospirillum* provide insight to the functions and adaptation mechanisms of *Campylobacteria* in shallow-water hydrothermal vents. *mSystems* 9(9): e00148-24. (SCI).
11. Nishida S., R. Machida and J.-S. Hwang, 2024. A new species of *Pseudodiaptomus* (Copepoda, Calanoida, Pseudodiaptomidae) from the coastal waters of northern Taiwan with notes on co-occurring and previously record species. *Crustaceana*, 97(10-11):

1255-1279. (SCI).

12. Giriya, G. K., L.-C. Tseng, P. Muthu, Y.-L. Chen, Y.-N. Ho and J.-S. Hwang*, 2024. Microbiome flexibility enhances the resilience of the potentially invasive coral *Tubastraea aurea* to abrupt environmental changes: Insights from a shallow water hydrothermal vent transplantation study. *Science of the Total Environment* 954:176792. (SCI).
13. Davidson, A. M., L.-C. Tseng, Y.-G. Wang and J.-S. Hwang*, 2024. Impact of shallow hydrothermal vent waters on monsoonal copepod distribution and abundance around active volcanic island off northeast Taiwan, West Pacific. *Science of the Total Environment* 957:177711. (SCI).
14. Vasanthakumaran, M., M. Ramesh, K. Murugan, T. Hema, R. Rajaganesh and J.-S. Hwang*, 2024. Evaluation of the developmental toxicity using biochemical biomarkers in the zebrafish (*Danio rerio*) embryos exposed to biosynthesized cadmium oxide nanoparticles. *Chemosphere* 369: 143851. (SCI).
15. Vasanthakumaran, M., J. R. Beaudoin, L.-C. Tseng, Y.-J. Pan, S.-H. Peng, K. Murugan, R. Rajaganesh and J.-S. Hwang*, 2024。熱帶圓管星珊瑚在台灣龜山島海底熱泉的熱耐受性與適應機制，*海洋及水下科技*，34(4): 14-21。
16. Vasanthakumaran, M., J. R. Beaudoin, L.-C. Tseng, Y.-J. Pan, S.-H. Peng, K. Murugan, R. Rajaganesh, T. Muralisankar and J.-S. Hwang*, 2024。海底熱泉螃蟹對海洋酸化的生理生態的影響研究，*海洋及水下科技*，34(4): 22-34。
17. Murugan, K., M. Vasanthakumaran, R. Rajaganesh, L.-C. Tseng, Y.-J. Pan, S.-H. Peng and J.-S. Hwang*, 2024。探索海底熱泉蟹：多功能角色與未來展望，*海洋及水下科技*，34(4): 35-47。
18. Tseng, L.-C., M. Vasanthakumaran, K. Murugan and J.-S. Hwang*, 2024。龜山島淺海熱泉生物多樣性與未來展望，*海洋及水下科技*，34(4): 61-70。
19. Davidson, A. M. and J.-S. Hwang*, 2024。從海面到沉積層：台灣東北龜山島淺海熱泉區橈足類死亡率與能量流動，*海洋及水下科技*，34(4): 71-76。

2023

20. Lee, S.-H. L.-C. Tseng, Y. H. Yoon, E. Ramirez-Romero, J.-S. Hwang*, J. C. Molinero, 2023. The global spread of jellyfish hazards mirrors the pace of human imprint in the marine environment. *Environment International*, 171:107699. (SCI). IF:13.352; Ranking: 16/279 [Q1] ENVIRONMENTAL SCIENCES.
21. Dahms, H.-U., S. Thirunavukkarasu and J.-S. Hwang*, 2023. Can Marine Hydrothermal Vents Be Used as Natural Laboratories to Study Global Change Effects on Zooplankton in a Future Ocean? *Journal of Marine Science and Engineering*, 11, 163. (SCI). <https://doi.org/10.3390/jmse11010163>
22. Krishnan, M. H. Subramanian, S.K. Ramachandran, A. Muthukumarasamy, D. Ramadoss, A. Mahalingam, A. J. Rathinam, H.-U. Dahms and J.-S. Hwang*, 2023. Synthesis of Bimetallic BiPO₄/ZnO Nanocomposite: Enhanced Photocatalytic Dye Degradation and Antibacterial Applications. *International Journal of Molecular Sciences* 24, 1947. (SCI). <https://doi.org/10.3390/ijms24031947>.
23. Wang, Y.-G., L.-C. Tseng, X.-Y. Chen, R.-X. Sun, P. Xiang, B.-P. Xing, C.-G. Wang and J.-S. Hwang*, 2023. Cold Dome Affects Mesozooplankton Communities during the Southwest Monsoon Period in the Southeast East China Sea. *Journal of Marine Science Engineering*, 11, 508. (SCI). <https://doi.org/10.3390/jmse11030508>
24. Wang, Y.M.V., T. Larsen, M. Lebrato, L.-C. Tseng, N. Smith-Sánchez, P-W. Lee, J.-C. Molinero, J.-S. Hwang, T.-Y. Chan and D. Garbe-Schönberg, 2023. Foraging under extreme events: Contrasting adaptations by benthic macrofauna to drastic biogeochemical disturbance. *Functional Ecology*. 37(5): 1390-1406. <https://doi.org/10.1111/1365-2435.14312> (SCI).
25. Muthu, P., Y.-C. Lee, K. Gowri, Y.-L. Chen, Y.-N. Ho, J.-S. Hwang*, 2023. Bacterial community responses of the hydrothermal vent crab *Xenograpsus testudinatus* fed on microplastics. *Frontiers in Ecology and Evolution - Population, Community, and Ecosystem Dynamics*, 11:1203647 | [doi: 10.3389/fevo.2023.1203647](https://doi.org/10.3389/fevo.2023.1203647) (SCI).
26. Murugan, K., R. Rajaganesh, J.-S. Hwang, L. Wang, M. Vasanthakumaran, H.-U. Dahms, C. Panneerselvam, Y. K. Mohanta, S. Muthupandian, R. B. Janarthanam, F. Chen, 2023. Smoke toxicity effect of bio-fabricated mosquito coil for the sustainable management of

mosquito vectors. *Journal of Natural Pesticide Research*. 21:100048. (SCI).

27. Murugan, K., R. Rajaganesh, M. Vasanthakumaran, J. H. S. Douglas, J.-S. Hwang, H.-U. Dahms, F. Chen, R.-D. Xue, L. Wang, N. Senthilkumar, M. N. D. Yahia, C. Panneerselvam, 2023. Mosquito Vector Management in Clean, Stagnant and Sewage Water ecosystems. ("Environmental Nexus Approach: Management of Water, Waste, and Soil" to be published by CRC Press (Taylor & Francis Group) USA.), PP.102-114, 2023.
28. Chandramohan, B., K. Murugan, R. Rajaganesh, G. Shanmugam, M. Vasanathakumaran, V. Karthika, A. Arumugam, L. Wang, J.-S. Hwang, C. Panneerselvam, Y. K. Mohanta, F. Chen, N. A. H. Alkenani, M. Hosseinifarahi, M. N. D. Yahia, S. Muthupandian, 2023. Bio-fabricated silver-gold alloy nanoparticles using medicinal plants (*Smilax zeylanica* L.) as potential larvicidal agents for the control of mosquito vectors. *Scientific reports*. (In press).
29. Alekseev, V., H.-U. Dahms, J.-S. Hwang* and N. Sukhikh, 2023. Invasive and Rare Aquatic Invertebrates of Taiwan with a Focus on Their Dormancy. *Water*, 15: 3155. (SCI).
30. Girija, G. K., L.-C. Tseng, Y.-L. Chen, P.-J. Meng, J.-S. Hwang and Y.-N. Ho, 2023. Microbiome variability in invasive coral (*Tubastraea aurea*) in response to diverse environmental stressors. *Frontiers in Marine Science - Coral Reef Research*. 10:1234137. (SCI).

2022

31. Alekseev, V. R., J.-S. Hwang* and M. A. Levinskikh, 2022. Effect of Space Flight Factor on Dormant Stages in Aquatic Organisms: A Review of International Space Station and Terrestrial Experiments. *Life*. 12, 47. <https://doi.org/10.3390/life12010047> (SCI).
32. Kadiene, E. U. B. Ouddane, H.-Y. Gong, J.-S. Hwang* and S. Souissi, 2022. Multigenerational study of life history traits, bioaccumulation, and molecular responses of *Pseudodiptomus annandalei* to cadmium. *Ecotoxicology and Environmental Safety*. 230: 113171. (SCI).
33. Santhaseelan, H., V.T. Dinakaran, H.-U. Dahms, J. M. Ahamed, S. G. Murugaiah, M. Krishnan, J.-S. Hwang* and A. J. Rathinam, 2022. Recent Antimicrobial Responses of Halophilic Microbes in Clinical Pathogens. *Microorganisms* 2022, 10, 417. <https://doi.org/10.3390/microorganisms10020417>. (SCI).
34. Mathew, M.M., K. Khatana, V. Vats, R. Dhanker, R. Kumar, H.-U. Dahms and J.-S. Hwang, 2022. Biological Approaches Integrating Algae and Bacteria for the Degradation of Wastewater Contaminants—A Review. *Front. Microbiol.* 12:801051.
35. Murugan, K., C. Panneerselvam, J. Subramaniam, M. Paulpandi, R. Rajaganesh, M. Vasanthakumaran, J. Madhavan, S. S. Shafi, M. Roni, J. S. Portilla-Pulido, S. C. Mendez, J. E. Duque, L. Wang, A. T. Aziz, B. Chandramohan, D. Dinesh, S. Piramanayagam and J.-S. Hwang*, 2022. Synthesis of new series of quinoline derivatives with insecticidal effects on larval vectors of malaria and dengue diseases. *Scientific Reports*. 12: 4765.
36. Pan, Y.-J., H.-U. Dahms, J.-S. Hwang and S. Souissi, 2022. Recent Trends in Live Feeds for Marine Larviculture: A Mini Review. *Frontiers in Marine Science* 9:864165. (SCI).
37. Tseng, L.-C., J. C. Molinero, Q.-C. Chen and J.-S. Hwang*, Community structure of zooplankton during the southwest-northeast monsoon transition period in the Southeastern East China Sea. *Crustaceana* 95(5-6): 667-694. (SCI).
38. Wang, Y.-G. and J.-S. Hwang*, 2022. A new species of *Tharybis* (Crustacea: Copepoda: Calanoida: Tharybidae) from northern Taiwan. *Zootaxa* 5189(1):267-274. (SCI).
39. Charli Deepak Arulanandam, J.-S. Hwang*, A. J. Rathinam and H.-U. Dahms, 2022. Evaluating different web applications to assess the toxicity of Plasticizers. *Scientific Reports*. 12:19684. (SCI).
40. Mudigonda, S., H.-U. Dahms, J.-S. Hwang* and W.-P. Li, 2022. Combined effects of copper oxide and nickel oxide coated chitosan nanoparticles adsorbed to styrofoam resin beads on hydrothermal vent bacteria. *Chemosphere*, Volume 308, Part 2, December 2022, 136338.
41. Wang, Y.-G., L.-C. Tseng, R.-X. Sun, X.-Y. Chen, P. Xiang, C.-G. Wang, B.-P. Xing and J.-S. Hwang*, 2022. Copepods as Indicators of Different Water Masses during the Northeast Monsoon Prevailing Period Northeast of Taiwan. *Biology-Basel*, 11(9), 1357. <https://doi.org/10.3390/biology11091357>

42. Mohanta, Y. K., D. Nayak, A. K. Mishra, I. Chakrabarty, M. K. Ray, T. K. Mohanta, K. Tayung, R. Rajaganesh, M. Vasanthakumaran, S. Muthupandian, Murugan, K., Sharma, G., H.-U. Dahms and J.-S. Hwang*, 2022. Green Synthesis of Endolichenic Fungi Functionalized Silver Nanoparticles: The Role in Antimicrobial, Anti-Cancer, and Mosquitocidal Activities. *International Journal Molecular Sciences* 23, 10626. <https://doi.org/10.3390/ijms231810626>
43. Yang, D. Y., X. W. Wu, Z. Wang, X. Y. Zhao, J.-S. Hwang*, L. Z. Cai, 2022. Redescription of a rarely encountered species *Travisa chinensis* Grube, 1869 (Annelida, Traviidae), including a description of a new species of *Travisa* from Amoy, China. *ZooKeys*, 1128: 1-17. (SCI).
44. Wang, L., Z. Y. Shen, X. Y. Cheng, J.-S. Hwang, Y. Z. Guo, M. Y. Sun, J. W. Cao, R. L. Liu, J. S. Fang, 2022. Metagenomic insights into the functions of microbial communities in sulfur-rich sediment of a shallow-water hydrothermal vent off Kueishan Island. *Frontiers in Microbiology*, section Aquatic Microbiology. 13:992034. doi: 10.3389/fmicb.2022.992034 (SCI).
45. Tseng, L.-C., P. Limviriyakul and J.-S. Hwang*, 2022. Macrosymbionts of starfish *Echinaster luzonicus* (Gray, 1840) in the waters of a volcanic western Pacific island. *Plos One*. 17(11): e0278288. <https://doi.org/10.1371/journal.pone.0278288>. (SCI).
46. Das, S., A. Souissi, B. Ouddane, J.-S. Hwang and S. Souissi, 2022. Trace metals exposure in three different coastal compartments show specific morphological and reproductive traits across generations in a sentinel copepod. *Science of the Total Environment*. Volume 859, Part 2, 10 February 2023, 160378. (SCI).
47. Lee, F.-J. Deborah, J.-S. Hwang, J.-O Cheng, H.-T. Lin, F.-C. Ko, 2022. Comparison of polycyclic aromatic hydrocarbon accumulation in crab tissues with the ambient marine particles from shallow hydrothermal vents, northeast Taiwan. *Environmental Research*. Volume 217, 15 January 2023, 114863. (SCI).
48. Lee, S.-H., M. Scotti, S. Jung, J.-S. Hwang* and J. C. Molinero, 2022. Jellyfish blooms challenge the provisioning of ecosystem services in the Korean coastal waters. *Hydrobiologia*. <https://doi.org/10.1007/s10750-022-05076-4>. (SCI).
- 2021**
49. Hong, J.-F., B. Ouddane, J.-S. Hwang and H.-U. Dahms, 2021. In silico assessment of health risks mediated by marine cyanobacteria. *Biocell*. 2021 45(1): 65-77.
50. Lee P.-W., S.-H. Hsiao, C. Chou, L.-C. Tseng and J.-S. Hwang*, 2021. Zooplankton Fluctuations in the Surface Waters of the Estuary of a Large Subtropical Urban River. *Frontiers in Ecology and Evolution* 9:598274. doi: 10.3389/fevo.2021.598274. (SCI).
51. Amuthavalli, P., J.-S. Hwang*, H.-U. Dahms, L. Wang, J. Anitha, M. Vasanthakumaran, A. D. Gandhi, K. Murugan, J. Subramaniam, M. Paulpandi, B. Chandramohan and S. Singh, 2021. Zinc oxide nanoparticles using plant *Lawsonia inermis* and their mosquitocidal, antimicrobial, anticancer applications showing moderate side effects. *Scientific Reports*. 11:8837. (SCI).
52. Gurunathan, R., B. Huang, V. K. Ponnusamy, J.-S. Hwang* and H.-U. Dahms, 2021. Novel recombinant keratin degrading subtilisin like serine alkaline protease from *Bacillus cereus* isolated from marine hydrothermal vent crabs. *Scientific Reports*. 11: 12007. (SCI).
53. Lee, S.-H., J.-S. Hwang*, K. Y. Kim and J. C. Molinero, 2021. Contrasting Effects of Regional and Local Climate on the Interannual Variability and Phenology of the Scyphozoan, *Aurelia coerulea* and *Nemopilema nomurai* in the Korean Peninsula. *Diversity-Basel* 13, 214.
54. Guo, C.-Y., P.-W. Tseng, J.-S. Hwang, G.-C. Wu and C.-F. Chang, 2021. The characteristics and expression profile of gonadal soma-derived factor (gsdf/Gsdf) during androgen-induced reversible sex change in the protogynous orange-spotted grouper, *Epinephelus coioides*. *Aquaculture*, 542: 736832. (SCI).
55. Guo, C.-Y., P.-W. Tseng, J.-S. Hwang, G.-C. Wu and C.-F. Chang, 2021. Potential role of DNA methylation of *cyp19a1a* promoter during sex change in protogynous orange-spotted grouper, *Epinephelus coioides*. *General and Comparative Endocrinology*. Available online 30 June 2021, 113840. (SCI).
56. Wang, Y.-G., L.-C. Tseng, B.-P. Xing, R.-X. Sun, X.-Y. Chen, C.-G. Wang and J.-S.

- Hwang*, 2021. Seasonal population structure of the copepod *Temora turbinata* (Dana, 1849) in the Kuroshio Current edge, southeastern East China Sea. *Applied Sciences*. 11(16):7545.
57. Murugan, K., L. Wang, J-S Hwang, J. Anitha, D. Dinesh, P. Amuthavalli, M. Vasanthakumaran, S. Kumar, and H-U Dahms, 2021. Use of Bio-fabricated Silver Nanocomposite Capped with Mud Crab Shell (*Scylla serrata*) Chitosan for Water Purifications and Sustainable Management of Mosquito Vectors at Stagnant Water System in the Semiarid Zone of Tamil Nadu, India. chapter in *Water Resources in Arid Lands: Management and Sustainability* 195-202. Springer.
 58. Pan, Y.-J., W.-L. Wang, J.-S. Hwang and S. Souissi, 2021. Effects of Epibiotic Diatoms on the Productivity of the Calanoid Copepod *Acartia tonsa* (Dana) in Intensive Aquaculture Systems. *Front. Mar. Sci.* 8:728779. doi: 10.3389/fmars.2021.728779. (SCI).
 59. Murugan, K., J. Subramaniam, R. Rajaganesh, C. Panneerselvam, P. Amuthavalli, M. Vasanthakumaran, S. Jayashanthini, D. Dinesh, J. Anitha, L. Wang, J.-S.-Hwang*, H.-U. Dahms, S. Mudigonda and Al Thabiani Aziz, 2021. Efficacy and side effects of bio-fabricated Sardine fish scale silver nanoparticles against malarial vector *Anopheles stephensi*. *Scientific Reports*. 11: 19567. (SCI).
 60. Souissi, A., J.-S. Hwang* and S. Souissi, 2021. Reproductive trade-offs of the estuarine copepod *Eurytemora affinis* under different thermal and haline regimes. *Scientific Reports*. 11: 20139. (SCI).
 61. Huang, C.-Y., J.-S. Hwang, H. Yamashiro and S.-L. Tang, 2021. Spatial and cross-seasonal patterns of coral diseases in reefs of Taiwan: high prevalence and regional variation. *Diseases of Aquatic Organisms*. 146: 145-156. <https://doi.org/10.3354/dao03624>
 62. Gurunathan, R., A. J. Rathinam, J.-S. Hwang* and H.-U. Dahms, 2021. Shallow hydrothermal vent bacteria and their secondary metabolites with a particular focus on *Bacillus*. *Marine Drugs*. 19: 681. (SCI).
- 2020**
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B. 研討會論文

2024 年

1. Hwang, J.-S., 2024. Newer Technology of Microorganisms in the Ocean. International Conference on Recent Trends and Advancement in Science and Technology, February 21, 2024. India.
2. Hwang, J.-S., 2024. Newer Technology of Microorganisms in the Ocean. A two-day National Symposium on 'Blue Carbon Sink BCaS-2024', February 22-23, 2024. India.
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6. Davidson, A. M., Y.-G. Wang, L.-C. Tseng and J.-S. Hwang*, 2024. Temporal dynamics in planktonic copepod composition: Interplay of Kuroshio Current and shallow hydrothermal vents in the waters off northeastern Taiwan across varied monsoonal periods. ICES-PICES 7th International Zooplankton Production Symposium Report. March 17-22, 2024. Hobart-nipaluna, Tasmania, Australia.
7. Davidson, A. M., Y.-G. Wang, L.-C. Tseng and J.-S. Hwang*, 2024. Temporal dynamics in planktonic copepod composition: Interplay of Kuroshio Current and shallow hydrothermal vents in the waters off northeastern Taiwan across varied monsoonal periods. ICES-PICES 7th International Zooplankton Production Symposium Report. March 17-22, 2024. Hobart-nipaluna, Tasmania, Australia.
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