

壹、孟培傑教授簡歷表

一、基本資料

填表日期：2025/01/26					
中文姓名	孟培傑	英文姓名	Meng Pei-Jie		
國籍	中華民國	性別	☒ 男 ☐ 女	出生年	1960 年
傳真號碼	無	E-MAIL	pjmeng@gms.ndhu.edu.tw		

二、主要學歷

畢／肄業學校	國別	主修學門系所	學位	起訖年月(西元年/月)
國立台灣大學	中華民國	海洋研究所	博士	1992/ 09 至 1998/ 06
國立台灣大學	中華民國	海洋研究所	碩士	1989/ 09 至 1991/ 06
國立臺灣海洋大學	中華民國	海洋系	學士	1979/09 至 1983/06

三、現職及與專長相關之經歷

服務機關	服務部門／系所	職稱	起訖年月(西元年/月)
現職：			
國家實驗研究院	台灣海洋科技研究中心	中心主任	2023/08~
國立東華大學	海洋生物研究所	教授	2012/ 08~
國立中山大學	海洋科學系	合聘教授	2024/ 02~
國立台灣大學	新碳勘科技研究中心	客座研究員	2025/01
中央研究院	關鍵議題研究中心	研究員(合聘)	2025/05~
中央研究院	國際海洋研究會中華民國委員會	院聘 委員	2025/01~2027/12
中華民國海洋學會		常務理事	2023/08/01~
中華民國自然生態保育協會		理事	2018/08~
中央研究院	國際環境科學委員會中華民國委員會	院聘任常務委員	2015/ 12~2025/12
中華民國珊瑚礁學會		榮譽理事長	2021/01/16~2025/01/15
經歷：			
國立海洋生物博物館	生物組	研究員(合聘)	2020/ 08~2023/07
國立東華大學	研究發展處	處長	2021/ 08~2023/07
國立東華大學	環境暨海洋學院	副院長	2022/ 08~2023/07
國立東華大學	海洋科學學院	副院長	2020/ 08~2022/ 07
國立東華大學	跨領域學術研究中心	中心主任	2022/ 08~2023/07
國立東華大學	研究發展處	副處長	2020/ 08~ 2021/ 07
國立東華大學	研究發展處 產學合作	組長	2020/ 08~ 2021/ 11
國立東華大學	通識教育中心	教授	2020/ 08~2021/07
國立東華大學	海洋生物研究所	教授兼所長	2016/03 至 2019/07/31

國立海洋生物博物館	生物組	研究員	2011/ 11~2020/ 07
中央研究院	太平洋科學協會中華民國委員會	院聘任委員	2013/ 10~2022/12
中華民國珊瑚礁學會	理監事會	第九、十屆理事長	2016/ 01/17 至 2021/01/16
中華民國海洋學會		理事	2017/08/01~2023/07
國立海洋生物博物館	生物組	副研究員	2008/ 08 至 2011/ 11
台灣海域保護及監測協會		委員	2013/02~
國立東華大學	海洋生物多樣性及演化研究所	副教授	2009 / 12 至 2012/ 07
實踐大學	食品營養系	兼任助理教授	1999/ 09 至 2000/ 07
中央研究院	化學研究所	博士後研究	1998/ 08 至 2000/ 11
國立海洋生物博物館	生物組	助理研究員	2000/ 11 至 2008/ 08
國立東華大學	海洋生物多樣性及演化研究所	助理教授	2005 / 08 至 2009/ 11

四、專長

1. 海洋環境化學	2. 水族館水質安全管理	3. 海洋生態環境	4. 海洋污染
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五、相關學術著作目錄：

Refereed papers:

2025

1. Ting-Hsuan Tu, Hung-Yen Hsieh, **Pei-Jie Meng***, Chung-Chi Chen*(2025) Physiological responses of scleractinian coral to trace metal enrichment and thermal stress. (Accepted) Marine Environmental Research.
2. **Pei-Jie Meng***, Chia-Ming Chang, Hung-Yen Hsieh, Anderson B. Mayfield, Chung-Chi Chen* (2025) The impact of coral reef ecosystems and upwelling events on the marine carbon dynamics of Southern Taiwan. <https://doi.org/10.5194/egusphere-2023-1097> Preprint. Discussion started: 8 June 2023.
3. Sun, Y.-H.; Lin, Y.-R.; Hsieh, H.-Y.; **Meng, P.-J.*** Natural Spawning, Early Development, and First Successful Hatchery Production of the Vermiculated Angelfish (*Chaetodontoplus mesoleucus*), Exploring the Influence of Temperature and Salinity. *Animals* 2025, 15, 1657. <https://doi.org/10.3390/ani15111657>
4. Arah Narida, Sujune Tsai, Zhi-Hong Wen, **Pei-Jie Meng**, Chih-Yang Huang, Chiahsin Lin (2025) Frontiers in cryopreservation techniques for marine invertebrate larvae. *Invertebrate Biology*, 144(1): (2025). <https://doi.org/10.71161/ivb.144.1.2024.00007>
5. Jih-Terng Wang, Sung-Yin Yang, Pi-Jen Liu, Yu-Shih Lin, Chia-Ming Chang, Keryea Soong, Chang-Feng Dai , **Pei-Jie Meng***(2025) Unexpected coral community development and acclimatization to turbid water in an 2 exclusive harbor constructed on an estuary. *Marine Ecology Progress Series*. Volume 769:59–72. Published September 18, 2025. <https://doi.org/10.3354/meps14921>.
6. Yu-Hsuan Sun, Yu-Ru Lin, Hung-Yen Hsieh and **Pei-Jie Meng***(2025) Early Feeding Strategies for the Larviculture of the Vermiculated Angelfish *Chaetodontoplus mesoleucus*:

The Key Role of Copepods. *Animals* 2025, 15, 2437. <https://doi.org/10.3390/ani15162437>

2024

7. Yu-Jia Lin, Tzu-Chun Chen, Chen-Tung Arthur Chen, Saou-Lien Wong, **Pei-Jie Meng**, Meng-Hsien Chen (2024) Decreases in pH from effluent had a devastating but reversible impact on the coastal plankton communities. *Marine Pollution Bulletin* 211 (2024) 117359. doi.org/10.1016/j.marpolbul.2024.117359
8. Lee, H.-J.; Huang, S.-J.; **Meng, P.-J.**; Chen, C.-C.; Ho, C.-Y.; Tsai, Y.-C. (2024) Monsoons and Tide-Induced Eddies Deflect the Dispersion of the Thermal Plume in Nan Wan Bay. *Water* 2024, 16, 1420. <https://doi.org/10.3390/w16101420>.
9. Meng-Hsien Chen, Yu-Jia Lin, Tzu-Chun Chen, Chen-Tung Arthur Chen, Saou-Lien Wong, and **Pei-Jie Meng** (2024) Long-term monitoring dataset of plankton assemblages in western Taiwan coastal water. *Scientific Data*. 11:917 | <https://doi.org/10.1038/s41597-024-03784-1>.
10. Hung-Yen Hsieh *, Ming-An Lee, Wei-Lun Chiu and **Pei-Jie Meng*** (2024) Comparison of Abundance and Structure of Larval Fish Assemblages between Autumn and Spring in the Waters Surrounding Taiwan Bank, Western North Pacific. *Fishes* 2024, 9, 16. <https://doi.org/10.3390/fishes9010016>.

2023

11. Hung-Yen Hsieh, Kwee-Siong Tew and **Pei-Jie Meng** (2023) The Impact of Changes in the Marine Environment on Marine Organisms. *J. Mar. Sci. Eng.* 2023, 11, 809. <https://doi.org/10.3390/jmse11040809>.
12. McRae CJ, Keshavmurthy S, Chen H-K, Ye Z-M, **Meng P-J**, Rosset SL, Huang W-B, Chen CA, Fan T-Y, Côté IM. (2023) Baseline dynamics of Symbiodiniaceae genera and photochemical efficiency in corals from reefs with different thermal histories. *PeerJ* 11:e15421 <http://doi.org/10.7717/peerj.15421>
13. Girija GK, Tseng L-C, Chen Y-L, **Meng P-J**, Hwang J-S and Ho Y-N (2023) Microbiome variability in invasive coral (*Tubastraea aurea*) in response to diverse environmental stressors. *Front. Mar. Sci.* 10:1234137. doi: 10.3389/fmars.2023.1234137

2022

14. Chung-Chi Chen*, **Pei-Jie Meng***, Chih-hao Hsieh and Sen Jan (2022) Plankton Community Respiration and Particulate Organic Carbon in the Kuroshio East of Taiwan. *Plants* 2022, 11, 2909. <https://doi.org/10.3390/plants11212909>
15. Wei-Rung Chou, Hung-Yen Hsieh, Guo-Kai Hong, Fung-Chi Ko, **Pei-Jie Meng** and Kwee Siong Tew (2022) Verification of an environmental impact assessment using a multivariate statistical model. *J. Mar. Sci. Eng.* 2022, 10, 1023. <https://doi.org/10.3390/jmse10081023>.
16. Chung-Chi Chen, Hung-Yen Hsieh, Anderson B. Mayfield, Chia-Ming Chang, Jih-Terng Wang and **Pei-Jie Meng*** (2022) The Key Impact on Water Quality of Coral Reefs in Kenting National Park. *J. Mar. Sci. Eng.* 2022, 10(2), 270; doi:10.3390/jmse10020270.
17. Chung-Chi Chen, Kwee-Siong Tew, Chih-Yen Huang, Hung-Yen Hsieh, Jih-Terng Wang, **Pei-Jie Meng*** (2022) Developing a Real-Time Trophic State Index of a Seawater Lagoon: A Case Study from Dapeng Bay, Southern Taiwan. *Front. Mar. Sci.* 9:640046. doi: 10.3389/fmars.2022.640046. (MARINE & FRESHWATER BIOLOGY, Rank 6/110)
18. Wang J-T, Wang Y-T, Chen CA, **Meng P-J**, Tew KS, Chiang P-W, Tang S-L. 2022. Extra high superoxide dismutase in host tissue is associated with improving bleaching resistance in "thermal adapted" and *Durusdinium trenchii*-associating coral. *PeerJ* 10: e12746 <http://doi.org/10.7717/peerj.12746>
19. Leu, M.-Y.*, Hus, Y.-C., Tu, Y.-H., Chiu, P.-S., Yu, B.-H., Wang, J.-B., Tew, K.S., **Meng, P.-J.** (2022) Natural spawning, early development and first successful hatchery production of the bluestreak cleaner wrasse, *Labroides dimidiatus* (Valenciennes, 1839), with application of an inorganic fertilization method in larviculture. *Aquaculture*, 553, 738056. (4.242, MARINE & FRESHWATER BIOLOGY, 11/110, SCI ; <https://doi.org/10.1016/j.aquaculture.2022.738056>)

20. Crystal J. McRae, Shashank Keshavmurthy, **Pei- Jie Meng**, Sabrina L. Rosset, Wen- Bin Huang, Chaolun Allen Chen, Tung- Yung Fan, Isabelle M. Côté (2022) Variable responses to chronic and acute elevated temperature of three coral species from reefs with distinct thermal regimes. *Marine Biology* (2022) 169:97, <https://doi.org/10.1007/s00227-022-04071-6>
21. Meng-Hsien Chen, Chien-Cheng Lai, Tzn-Chun Chen, Chuan-Wen Ho, **Pei-Jie Meng**, Kuo-Shu Chen, Tsang-Hsieh Hung, Chih-Wei Chang^{7*} (2022) Seasonal Variations in the Trawling Marine Organism Community at the Changyun Rise off Central Western Taiwan from Spring to Autumn 2020. *Mar. Res.* 2022/12 Vol.2, Iss.2 :25-42, DOI:10.29677/MR.202212_2(2).0002
22. Hung-Yen Hsieh*, Kuang-Ching Huang, Jing-O Cheng, Fung-Chi Ko and **Pei-Jie Meng*** (2022) Concentrations and Characteristics of Polybrominated Diphenyl Ethers (PBDEs) in Marine Zooplankton from the Gaoping Waters of Southwestern Taiwan. *J. Mar. Sci. Eng.* 2022, 10, 1943. <https://doi.org/10.3390/jmse10121943>.

2021

23. Kuo- Shu Chen, Hsu- Sen Chen, Chiee- Young Chen, Yan- Lin Su, **Pei- Jie Meng**, Meng- Hsien Chen (2021) Multivariate analysis of the spatial species diversity of demersal fish assemblages in relation to habitat characteristics in a subtropical national park, Taiwan. *Marine Biodiversity*, 52:4, <https://doi.org/10.1007/s12526-021-01225-5>
24. Kwee Siong Tew, Jimmy Kuo, Jing-O Cheng, Fung-Chi Ko, **Pei-Jie Meng**, Anderson B. Mayfield, and Pi-Jen Liu (2021) Impacts of seagrass on benthic microalgae and phytoplankton communities in an experimentally warmed coral reef mesocosm. *Frontiers in Marine Science*, 8:679683. doi: 10.3389/fmars.2021.679683
25. Luca Cirino, Sujune Tsai, Fu-Wen Kuo, Zhi-Hong Wen, **Pei-Jie Meng** & Chiahsin Lin (2021): Decline of Seriatopora (Scleractinia: Pocilloporidae) fecundity in Taiwan in 2018–2019, *Marine Biology Research*, DOI: 10.1080/17451000.2021.1906904
26. Hung-Yen Hsieh*, Wen-Tseng Lo, Chien-Chun Liao and **Pei-Jie Meng ***, “Shifts in the Assemblage of Summer Mesopelagic Fish Larvae in the Gaoping Waters of Southwestern Taiwan: A Comparison between El Niño Events and Regular Years,” *Journal of Marine Science and Engineering* , Vol.9, pp.1065, September 2021.
27. Hsu-Sen Chen, Kuo-Shu Chen, Chiee-Young Chen, Chin-Chang Hung, **Pei-Jie Meng*** and Meng-Hsien Chen, “Spatiotemporal distribution of shrimp assemblages in the western coastal waters off Taiwan at the Tropic of Cancer, Western Pacific Ocean,” *Estuarine, Coastal and Shelf Science* , Vol.255, pp.107356, April 2021. (IF=2.333)

2020

28. Yoko Nozawa, Che-Hung Lin, **Pei-Jie Meng** (2020) Sea urchins (diadematids) promote coral recovery via recruitment on Taiwanese reefs. *Coral Reefs* 39, 1199–1207 (2020). <https://doi.org/10.1007/s00338-020-01955-1>
29. Selene Di Genio , Li-Hsueh Wang , **Pei-Jie Meng** , Sujune Tsai , Chiahsin Lin (2020) "Symbio-Cryobank": Toward the Development of a Cryogenic Archive for the Coral Reef Dinoflagellate Symbiont Symbiodiniaceae. *Biopreserv Biobank*. 2020 Sep 9. doi: 10.1089/bio.2020.0071. Online ahead of print. PMID: 32907347
30. Hung-Jen Lee, **Pei-Jie Meng**, Chung-Chi Chen, Kwee Siong Tew (2020) Monsoon effects on the residence time of a coastal lagoon in southwestern Taiwan. *Estuarine, Coastal and Shelf Science*. Volume 233, 5 February 2020, 106535, <https://doi.org/10.1016/j.ecss.2019.106535>

2019

31. Chiu, P.-S., Leu, M.-Y.* and **Meng, P.-J.** (2019) Year-round natural spawning, early development, and the effects of temperature, salinity and prey density on captive ornate goby *Istigobius ornatus* (Ruppell, 1830) larval survival. *Aquaculture Research*, 50:173-187.
32. Hsieh, H.Y., Huang, K.C., Cheng, J.O., Lo, W.T., **Meng, P.J.**, Ko, F.C. (2019) Environmental Effects on the Bioaccumulation of PAHs in Marine Zooplankton in Gaoping Coastal Waters,

Taiwan: Concentration, Distribution, Profile, and Sources. Marine Pollution Bulletin, 144: 68-78.

33. Esther Kadiene, **Pei-Jie Meng**, Jiang-Shiou Hwang, Sami Souissi (2019) Acute and chronic toxicity of cadmium on the copepod *Pseudodiaptomus annandalei*: A life history traits approach. Chemosphere, 233: 396-404. DOI: 10.1016/j.chemosphere.2019.05.220
34. Jih-terng Wang, Yi-ting Wang, Shashank Keshavmurthy, **Pei-Jei Meng** and Chaolun Allen Chen (2019) The coral *Platygyra verweyi* exhibits local adaptation to long-term thermal stress through host-specific physiological and enzymatic response. Scientific Reports. 9:13492. <https://doi.org/10.1038/s41598-019-49594-z>
35. Shashank Keshavmurthy, Chao-Yang Kuo, Ya-Yi Huang, Rodrigo Carballo-Bolaños, **Pei-Jei Meng***, Jih-Terng Wang, Chaolun Allen Chen (2019) Coral reef resilience in Taiwan: lessons from long-term ecological research on the coral reefs of Kenting National Park. Journal of Marine Science and Engineering, 7:388; <https://doi.org/10.3390/jmse7110388>.
36. Lin, L.*, Thongpoo, P., Juri, C., Wang, L.H., **Meng, P.J.**, Kuo, F.W., Tsai, S. 2019 Cryopreservation of a thermotolerant lineage of the coral reef dinoflagellate *Symbiodinium*. Biopreservation and Biobanking. Vol. 17, No. 6 doi: 10.1089/bio.2019.0019.

2018

37. Leu, M.Y.*; Tai, K.Y.; **Meng, P.J.**; Tang, C.H.; Wang, P.H.; Tew, K.S. 2018 Embryonic, larval and juvenile development of the longfin batfish, *Platax teira* (Forsskal, 1775) under controlled conditions with special regard to mitigate cannibalism for larviculture. Aquaculture. 493: 204–213. SCI (IF=2.570, Fisheries: 8/50).
38. Sujune Tsai*, Gabriella Chong, **Pei-Jie Meng**, and Chiahsin Lin (2018) Sugars as supplemental cryoprotectants for marine organisms. Reviews in Aquaculture 10(3): 703-715 [SCI]. August 2018. <https://doi.org/10.1111/raq.12195>
39. Chia hsin Lin, Jian-Ming Zhuo, Gabriella Chong, Li-Hsueh Wang, **Pei-Jie Meng**, and Sujune Tsai (2018). The effects of aquarium culture on coral oocyte ultrastructure. Scientific Reports. 8:15159 DOI:10.1038/s41598-018-33341-x
40. Jeng-Wei Tsai, Hon-Jung Liew, Jyun-Jiang Jhang, Shiou-Han Hung, **Pei-Jie Meng**, Ming-Yih Leu, Christopher Lim, Cheng-Hao Tang (2018) A field and laboratory study of the responses of cytoprotection and osmoregulation to salinity stress in mosquitofish (*Gambusia affinis*). Fish Physiol Biochem. 44:489–502

2017

41. **Meng Pei-Jie**, Kwee Siong Tew, Hung-Yen Hsieh, and Chung-Chi Chen (2017) Relationship between magnitude of phytoplankton blooms and rainfall in a hyper-eutrophic lagoon: a continuous monitoring approach. Mar. Pollut. Bull. 124:897-902. Rank :9/106
42. Chung-Chi Chen, Kwee Siong Tew, Ping-Ho Ho, Fung-Chi Ko, Hung-Yen Hsieh**, **Pei-Jie Meng*** (2017) The impact of two oil spill events on the water quality along coastal area of Kenting National Park, Southern Taiwan. Mar. Pollut. Bull. 124:974-983. [SCI]
43. Hung-Yen Hsieh, **Pei-Jie Meng***, Yun-Chen Chang, Wen-Tseng Lo* (2017) Temporal and spatial occurrence of mesopelagic fish larvae during epipelagic drift associated with hydrographic features in the Gaoping coastal waters off southwestern Taiwan. Marine and Coastal Fisheries. 9, 244-259 [SCI]
44. Tew, K.S.*, Siao, Y.-J., Liu, P.-J., Lo, W.-T. and **Meng, P.-J.** (2017) Taiwanese marine microbenthic algal communities remain similar yet chlorophyll a concentrations rise in mesocosms with elevated CO₂ and temperature. Marine Pollution Bulletin. 124:929-937 <https://doi.org/10.1016/j.marpolbul.2017.06.050>.
45. Tew, K.S.*, Jhange, Y.-S., **Meng, P.-J.** and Leu, M.-Y. 2017. Environmental factors influencing the proliferation of microscopic epiphytic algae on the giant kelp under aquarium conditions. Journal of Applied Phycology. Doi: 10.1007/s10811-017-1148-9. (Online 2017-05-16) <https://link.springer.com/article/10.1007/s10811-017-1148-9>

2016

46. Kwee Siong Tew*, Yun-Chen Chang, **Pei-Jie Meng**, Ming-Yih Leu & David C Glover (2016) Towards sustainable exhibits – application of an inorganic fertilization method in coral reef fish larviculture in an aquarium. *Aquaculture Research*, 47:2748–2756. doi:10.1111/are.12725.
47. Hung-Yen Hsieh*, Wen-Tseng Lo, Hsiao-Hao Chen and **Pei-Jie Meng*** (2016) Larval fish assemblages and hydrographic characteristics in the coastal waters of southwestern Taiwan during non- and post-typhoon summers. *Zoological Studies*. 55:1-18 doi:10.6620/ZS.2016.55-18 [SCI] Impact factor: Rank:
48. Chen, T.H.*, Chou, S. M., Tang, C.H., Chen, C.Y., **Meng, P.J.**, Ko, F.C., Cheng, J.O. 2016. Endocrine disrupting effects of domestic wastewater on reproduction, sexual behavior, and gene expression in the brackish medaka *Oryzias melastigma*. *Chemosphere* 150: 566e575 [SCI] Impact factor: Rank:
49. Yu-Rong Cheng, Anderson B. Mayfield, **Pei-Jie Meng**, Chang-Feng Dai and Rony Huys (2016) Copepods associated with scleractinian corals: a worldwide checklist and a case study of their impact on the reef-building coral *Pocillopora damicornis* (Linnaeus, 1758) (Pocilloporidae). *Zootaxa*. Oct 11;4174(1):291-345. doi: 10.11646/zootaxa.4174.1.20.

2015

50. **Meng, Pei-Jie**, Hung-Jen Lee, Tew Kwee Siong, Chung-Chi Chen* (2015) Effect of a rainfall pulse on phytoplankton bloom succession in a hyper-eutrophic subtropical lagoon. *Marine and Freshwater Research*. 66(3) 60-69 [SCI] Impact factor:1.982 Rank: 12/49
51. Jeng-Ping Chen, Colin Kuo-Chang Wen, **Pei-Jie Meng**, Kah Leng Cherh, Kwang-Tsao Shao (2015) Ain't no mountain high enough: the impact of severe typhoon on montane stream fishes. *Environmental Biology of Fishes*. 98(1) 35-44. (SCI, IF=1.305 , Rank:53/100) DOI: 10.1007/s10641-014-0243-x
52. Ming-Yih Leu†, Jan-Jung Li, Yu-min Ju, Cher-Ming Hsiao, Chih-Wei Chang, **Pei-Jie Meng†**, Kwee Siong Tew*, and Wei-Hsien Wang (2015) Transportation, husbandary, and release of a whale shark (*Rhincodon typus*). *Journal of Marine Science and Technology*, Vol. 23, No. 5, pp. 814-818,†Equal contributed. (SCI, IF=0.671, Rank:)DOI: 10.6119/JMST-015-0511-3
53. Leu, M.-Y.* Sune, Y.-H. and **Meng, P.-J.** (2015) First results of larval rearing and development of the bluestriped angelfish *Chaetodontoplus septentrionalis* (Temminck & Schlegel) from hatching through juvenile stage with notes on its potential for aquaculture. *Aquaculture Research*, 46:1087-1100. DOI: 10.1111/are.12265. (SCI) Impact factor: 1.422 Rank: 23/49.
54. Pi-Jen Liu, Min-Chieh Hsin, Yen-Hsun Huang, Tung-Yung Fan, **Pei-Jie Meng**, Chung-Cheng Lu, and Hsing-Juh Lin (2015) Nutrient enrichment coupled with sedimentation favors sea anemones over corals. *PLoS ONE*. 10(4): e0125175. DOI: 10.1371/journal.pone.0125175. (SCI) Impact factor:3.73 Rank: 7/ 56.
55. Jih-Terng Wang, Chia-Min Hsu, Chao-Yang Kuo, **Pei-Jie Meng**, Shuh-Ji Kao, Chaolun Allen Chen (2015) Physiological Outperformance at the Morphologically-Transformed Edge of the Cyanobacteriosponge *Terpios hoshinota* (Suberitidae: Hadromerida) when Confronting Opponent Corals. *PLoS ONE* 10(6): e0131509. DOI: 10.1371/journal.pone.0131509. (SCI) Impact factor:3.73 Rank: 7/ 56.

2014

56. Tew Kwee Siong, **Pei-Jie Meng***, David C. Glover, Jih-Terng Wang, Ming-Yih Leu and Chung-Chi Chen (2014) Characterizing and predicting algal blooms in a subtropical coastal lagoon. *Marine and Freshwater Research*. 65(3) 191-197 DOI: 10.1071/MF13029 [SCI]Impact factor:1.982 Rank: 12/49 (Feb,2014)
57. Tew Kwee Siong, Ming-Yih Leu, Jih-Terng Wang, Chia-Ming Chang, Chung-Chi Chen and **Pei-Jie Meng**** (2014) A continuous, real-time water quality monitoring system for the coral

reef ecosystems of Nanwan Bay, southern Taiwan. Mar. Pollut. Bull. 85:641-647. [SCI] DOI: 10.1016/j.marpolbul.2013.11.022 Impact factor:2.531 Rank: 17/100

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2. 蕭渝霏、**孟培傑**(2024) 以富磷改變氮磷比對不規則盤珊瑚生理反應的影響。2024 年海洋科學年會暨國科會海洋學門成果發表, 新竹(2024/04/23-25)。
3. Hsieh Hung-Yen, Chiu Wei-Lun, **Meng Pei-Jie** (2024) Comparison of fish larvae assemblage in autumn and spring in the waters surrounding Taiwan Bank, western North Pacific. 2024 年海洋科學年會暨國科會海洋學門成果發表, 新竹(2024/04/23-25)。

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4. **孟培傑***、張家銘 (2023) 珊瑚礁生態系統及湧升流對南灣碳源與碳匯之影響。2023 海洋科學年會暨國科會海洋學門成果發表, 台中。
5. 郭姝君、**孟培傑**、謝泓諺 (2023) 台灣淺灘暨周邊海域浮游動物組成與重金屬元素含量研究。2023 海洋科學年會暨國科會海洋學門成果發表, 台中。
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10. Crystal J. McRae, Shashank Keshavmurthy, Hung-Kai Chen, Zong-Min Ye, **Pei-Jie Meng**, Sabrina L. Rosset, Wen-Bin Huang, Chaolun Allen Chen, Tung-Yung Fan, Isabelle M. Côté (2022) Exploring natural mechanisms and active enhancement of coral thermal tolerance. International Symposium on New Frontiers in Reef Biotechnology. International Symposium on New Frontiers in Reef Coral Biotechnology 2022.5.5.
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 - 9.漂浮性魚類受精卵收集裝置。申請類別:新型。申請案號:098206230,中華民國智慧財產局。核准日期:2009/9/11。核准文號:(98)智專一(四)01172 字第 09841590760 號。證書號碼:新型第 M372077 號。**100 年 11 月 1 日技轉**。創作人:呂明毅、孟培傑、段文宏、張桂祥、郭傑民。
 - 10.魚目之回鮮填充液組成及回鮮方法。申請類別:發明。申請案號:095137156,中華民國智慧財產局。核准日期:2009/11/27。核准文號:(98)智專二(五)01138 字第 09820772330 號。證書號碼:發明第 I 322668 號。創作人:陳正平、孟培傑、蔣佩婷、呂明毅、段文宏。
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六、歷年來執行之 NSC/MOST/NSTC 研究計畫

計畫名稱	計畫編號
台灣墾丁珊瑚礁生態系統和湧升流對海水碳源和匯的影響 III(114/08/01~115/07/31)	NSTC 114-2611-M-492-001 -
台灣墾丁珊瑚礁生態系統和湧升流對海水碳源和匯的影響 II(113/08/01~114/07/31)	NSTC 113-2611-M-259-002 -
台灣墾丁珊瑚礁生態系統和湧升流對海水碳源和匯的影響 (112/08/01~113/07/31)	NSTC 112-2611-M-259-001 -
海水中微量金屬及營養鹽暴露與石珊瑚白化因子之相關性研究(111/08/01~112/07/31)	MOST 111-2611-M-259-002 -
南灣海域冷水入侵對珊瑚白化及產卵週期之影響(III)(110/08/01~111/07/31)	MOST110-2611--259-002-
南灣海域冷水入侵對珊瑚白化及產卵週期之影響(II)(109/08/01~110/07/31)	MOST109-2611-M-259-003-
南灣海域冷水入侵對珊瑚白化及產卵週期之影響(I)	MOST 108-2611-M-291-005 -
冷水入侵對南灣珊瑚生長與健康之影響(II)	MOST 107-2611-M-291-001 -
冷水入侵對南灣珊瑚生長與健康之影響	MOST 106-2611-M-291-006 -
次致死劑量下有機錫對珊瑚成長與共生關係的影響(III)	MOST 105-2611-M-291 -004-
次致死劑量下有機錫對珊瑚成長與共生關係的影響(II)	MOST 104-2611-M-291 -004-

次致死劑量下有機錫對珊瑚成長與共生關係的影響(I)	MOST 103-2611-M-291 -004-
台灣珊瑚礁區有機錫含量與珊瑚的回添與反應機制關係之研究(III)	NSC 102-2611-M-291 -001 -
台灣珊瑚礁區有機錫含量與珊瑚的回添與反應機制關係之研究(II)	NSC 101-2611-M-291 -001 -
台灣珊瑚礁區有機錫含量與珊瑚的回添與反應機制關係之研究	NSC 100-2611-M-291 -001 -
海洋水質因子與珊瑚群聚組成關係之研究(三年期)	NSC97-2621-B-291-002-MY3
臺灣地區養殖經濟性貝類有機錫之生物累積及去除之研究(二)	NSC96-2611-M-291-002-
墾丁國家公園南灣海域長期生態研究-整合與模式建構(III)-墾丁珊瑚礁海域海水水質之研究(III)	NSC95-2621-B-291-003-
臺灣地區養殖經濟性貝類有機錫之生物累積及去除之研究	NSC95-2611-M-291-004-
九十四年度墾丁國家公園南灣海域長期生態研究-整合與模式建構(II)-墾丁珊瑚礁海域海水水質之研究(:)	NSC 94-2621-B-291-003
墾丁珊瑚礁海域之長期生態研究--墾丁珊瑚礁海域海水水質之研究	NSC93-2621-B-291-001
墾丁國家公園南灣海域長期生態研究--墾丁南灣附近海域海水水質之研究	NSC 92-2621-B-291-004
以陽極剝除法測定重金屬時去除水體中有機配位體干擾之研究	NSC 90-2313-B-291-001