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RESEARCH

Interests Fisheries Biology · Aquaculture · Aquatic Ecosystems Health

Areas Aquatic Science · Global and Planetary Change · Ecology · Nature and Landscape Conservation · Earth-Surface Processes · Physiology

RESEARCH SUMMARY

60	699	16	23	0.82	4%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 60 publications listed below, 1981–2024. Field-weighted impact is the mean over the 27 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 27 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 53

1. Michelle Naa Kordei Clottey, Joseph Aggrey-Fynn, John Blay, Evans Kwasi Arizi (2024). Stock assessment and reproductive biology of bluespotted seabream *Pagrus caeruleostictus* (family: Sparidae). *Aquaculture Fish and Fisheries*. <https://doi.org/10.1002/aff2.163>
2. Gertrude L.A. Dali, Denis W. Aheto, John Blay (2023). Mangrove resource utilization and impacts in the Pra and Kakum estuaries of Ghana. *Regional Studies in Marine Science*. <https://doi.org/10.1016/j.rsma.2023.103035>
3. Joshua Adotey, Emmanuel Acheampong, Denis Worlanyo Aheto, John Blay (2022). Carbon Stocks Assessment in a Disturbed and Undisturbed Mangrove Forest in Ghana. *Sustainability*. <https://doi.org/10.3390/su141912782>
4. JE Kassah, J Blay, I Okyere, N Lazar (2022). Maturity length, fecundity and spawning season of Atlantic chub mackerel *Scomber colias* in the coastal waters of Ghana (west-central Gulf of Guinea). *African Journal of Marine Science*. <https://doi.org/10.2989/1814232x.2022.2113140>
5. EBENEZER DELALI KPELLEY, JOHN BLAY, KOBINA YANKSON (2022). The biological characteristics of the Nile tilapia (*Oreochromis niloticus*) in the Weiija Reservoir, Ghana. *International Journal of Bonorowo Wetlands*. <https://doi.org/10.13057/bonorowo/w120105>
6. IK Osei, J Blay, N Asare (2021). An update of the reproductive biology of sardinellas (Family: Clupeidae) in the coastal waters of Ghana. *Fish Res.* <https://scholar.google.com/scholar?cluster=11657230216682111829&hl=en&oi=scholar>
7. Theophilus Apenuvor, John Blay, Joseph Aggreyfynn, Simon Drafor (2021). Effect of Different Doses of 17 A -Methyltestosterone on Masculinization, Pre-Post Treatment Growth Parameters and Condition Factor of *Sarotherodon Melanotheron* in Pond System. *Academic Journal of Life Sciences*. <https://doi.org/10.32861/ajls.74.56.62>
8. John Blay (2021). Effect of Different Doses of 17?-Methyltestosterone on Masculinization, Pre-Post Treatment Growth Parameters and Condition Factor of *Sarotherodon Melanotheron* in Pond System. *Academic Journal of Life Sciences*. <https://ideas.repec.org/a/arp/ajlsar/2021p56-62.html>
9. Isaac Okyere, John Blay (2020). Assessment of the fishery, growth and mortality characteristics of the

cassava croaker, *Pseudotolithus senegalensis* (Sciaenidae) from coastal waters of Ghana. *Regional Studies in Marine Science*. <https://doi.org/10.1016/j.rsma.2020.101425>

10. K Yankson, J Blay (2020). Status of the small pelagic stocks in Ghana in 2019. *Scientific and Technical Working Group. USAID/Ghana Sustainable Fisheries Management Project (SFMP)*. Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island. GH2014_SCI083_CRC. http://www.crc.uri.edu/download/GH2014_SCI083_CRC_FIN508.pdf
11. GA Tibu, DW Aheto, J Blay (2019). Growth and mortality parameters of the black-chinned tilapia *Sarotherodon melanotheron melanotheron* (Pisces: Cichlidae) in a small lagoon in the Central Region of Ghana. *African Journal of Aquatic Science*. <https://doi.org/10.2989/16085914.2019.1619512>
12. Eric A. Krampah, Kobina Yankson, John Blay (2019). Population dynamics of the Brown mussel *Perna perna* at a Rocky beach near Cape Coast, Ghana. *Marine Ecology*. <https://doi.org/10.1111/maec.12575>
13. K Yankson, J Blay (2018). Status of Ghana's small pelagic stocks and recommendations to achieve sustainable fishing 2017. *Scientific and Technical Working Group. USAID/Ghana Sustainable Fisheries Management Project (SFMP)*. <https://scholar.google.com/scholar?cluster=15110934770920666767&hl=en&oi=scholar>
14. K Yankson, J Blay (2018). Status of the small pelagic stocks in Ghana and recommendations to achieve sustainable fishing 2017. *Scientific and Technical Working Group. USAID/Ghana Sustainable Fisheries Management Project (SFMP)*. Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island. GH2014_SCI042_CRC. https://www.crc.uri.edu/download/GH2014_SCI042_CRC_FIN508.pdf
15. EA Krampah, K Yankson, J Blay (2016). Aspects of reproduction of the brown mussel *Perna perna* at the Iture rocky beach near Cape Coast, Ghana. *African Journal of Marine Science*. <https://doi.org/10.2989/1814232x.2016.1247751>
16. Daniel D. N. Nortey, Denis W. Aheto, John Blay, Fredrick E. Jonah, Noble K. Asare (2016). Comparative Assessment of Mangrove Biomass and Fish Assemblages in an Urban and Rural Mangrove Wetlands in Ghana. *Wetlands*. <https://doi.org/10.1007/s13157-016-0783-2>
17. K Yankson, J Blay (2016). Rebuilding depleted small pelagic stocks in Ghana. *A closed fishing season proposal to the Ministry of Fisheries and Aquaculture Development. The Scientific and Technical Working Group. The USAID/Ghana Sustainable Fisheries Management Project (SFMP)*. Coastal Resource Center, Graduate School of Oceanography, University of Rhode Island, Narragansett, RI. https://www.crc.uri.edu/download/GH2014_SCI002_CRC_FIN508.pdf
18. K K Mireku, J Blay, K Yankson (2016). Reproductive biology of Blackchin tilapia, *Sarotherodon melanotheron* (Pisces: Cichlidae) from Brimsu Reservoir, Cape Coast, Ghana. *International Journal of Fisheries and Aquaculture*. <https://doi.org/10.5897/ijfa2015.0511>
19. John Blay, K Yankson (2015). Comparative study of the benthic macroinvertebrate communities of two estuaries on the Southwestern Coast of Ghana. *Annals of Biological Research*. <https://www.academia.edu/download/116994158/comparative-study-of-the-benthic-macroinvertebrate-communities-of-twoestuaries-on-the-southwestern-coast-of-ghana.pdf>
20. Antobre Osei Owusu, EA Obodai, John Blay (2014). Factors influencing the range shift of plant species in wetlands, Northern Region (GHANA). *Annals of Experimental Biology*. https://www.researchgate.net/profile/Collins-Nsor/publication/307856213_Factors_influencing_the_range_shift_of_plant_species_in_wetlands_Northern_Region_GHANA/links/57d0291e08ae5f03b4890736/Factors-influencing-the-range-shift-of-plant-species-in-wetlands-Northern-Region-GHANA.pdf
21. John Blay (2013). Catch per unit effort (CPUE) and water level variations in the lower reaches of the White Volta River (Yapei), Ghana. *African Journal of Agricultural Research*. https://www.academia.edu/download/55982544/Abobi_et_al_CPUE_and_Water_level_Variation.pdf
22. JNR Blay (2013). Preliminary Assessment of the Growth of Two West African Bloody Cockle (*Anadara senilis*) Population in Ghana. *Ghana Journal of Science*. <https://scholar.google.com/scholar?cluster=14855149707741465796&hl=en&oi=scholar>
23. Isaac Okyere, John Blay, Joseph Aggrey-Fynn, Denis Worlanyo Aheto (2011). Composition, Diversity and Food Habits of the Fish Community of a Coastal Wetland in Ghana. *Journal of Environment and Ecology*.

24. Isaac Okyere, John Blay, Joseph Aggrey-Fynn (2011). Hydrographic Conditions and the Macrozoobenthos of a Coastal Wetland in Ghana.
25. john blay (2011). Saline Water and Agroforestry Systems on Degraded Land: an Evaluation. *International Journal of Ecology and Environmental Sciences*. <https://nieindia.org/Journal/index.php/ijeas/article/view/9>
26. J Blay (2010). Biodiversity threats assessment of the Western Region of Ghana. *The integrated coastal and fisheries governance (ICFG) initiative Ghana*. http://www.crc.uri.edu/download/GH2009ICM003_508.pdf
27. HR Dankwa, J Blay Jr, K Yankson (2009). Food and feeding habits of grey Mulletts (Pisces: Mugilidae) in two estuaries in Ghana. *West African Journal of Applied Ecology*. <https://doi.org/10.4314/wajae.v8i1.45786>
28. J Blay Jr, WK Awittor, D Agbeko (2009). Seasonal variation in food preference and feeding ecology of two juvenile marine fishes, *Pseudotolithus senegalensis* (Sciaenidae) and *Brachydeuterus auritus* (Haemulidae) off Cape Coast, Ghana. *West African Journal of Applied Ecology*. <https://doi.org/10.4314/wajae.v9i1.45686>
29. EA Obodai, K Yankson, J Blay (2007). In vitro fertilization and embryonic development of *crassostrea tulip* in Ghana. *Journal of the Ghana Science Association*. <https://www.africabib.org/rec.php?RID=Q00045050>
30. Kwarteng Twumasi, D. K. Dodoo, D. K. Essumang, J. Blay, K. Yankson (2007). The Effect of some Selected Pesticides on the Growth and Reproduction of Fresh Water *Oreochromis niloticus*, *Chrysichthys nigrodigitatus* and *Clarias gariepinus*. *Bulletin of Environmental Contamination and Toxicology*. <https://doi.org/10.1007/s00128-007-9279-3>
31. john blay (2006). 14. Seasonal variation in food preference and feeding ecology of two juvenile marine fishes, *Pseudotolithus senegalensis* (Sciaenidae) and *Brachydeuterus auritus* (Haemulidae) *West African Journal of Applied Ecology*. <https://journals.ug.edu.gh/index.php/wajae/article/view/1081>
32. john blay, K Yankson (2005). 6. Food and feeding habits of grey Mulletts (Pisces: Mugilidae) in two estuaries in Ghana. *West African Journal of Applied Ecology*. <https://journals.ug.edu.gh/index.php/wajae/article/view/1097>
33. John Blay (2003). Observations on the microstructure of otoliths of the big-eye grunt, *Brachydeuterus auritus* (Pisces: Haemulidae). *Journal of Natural Sciences*. *Journal of Natural Sciences*.
34. J Blay (2003). Sea turtle nesting and the effect of predation on the hatching success of the olive ridley (*Lepidochelys olivacea*) on Old Ningo Beach, Ghana, West Africa. *Proceedings of the Twenty-second Annual Symposium on Sea Turtle Biology and Conservation: 4 to 7 April 2002, Miami, Florida, USA*. https://books.google.com/books?hl=en&lr=&id=nI4eAQAAIAAJ&oi=fnd&pg=PA130&dq=info:8SQw6ujfHAAJ:scholar.google.com&ots=T8DnYYITnl&sig=i0KojNURsvqsKJ_f0QG_Y5bO2D0
35. A. Asabere-Ameyaw, J. Blay, Jr., K. Yankson (2000). Aspects of the dynamics of the inshore and offshore populations of *Brachydeuterus auritus* (Family: Haemulidae) in Ghana. *Journal of the Ghana Science Association*. <https://doi.org/10.4314/jgsa.v2i3.17884>
36. john blay (2000). Aspects of the dynamics of the inshore and offshore populations of *Brachydeuterus auritus* (Family: Haemulidae) in Ghana. *Journal of the Ghana Science Association*. https://www.academia.edu/download/116994198/Aspects-of-the-dynamics-of-the-inshore-and-offshore-populations-of-Brachydeuterus-auritus_Family-Haemulidae_in-Ghana.pdf
37. W. Ekau, J. Blay (2000). Validation of daily increment deposition and early development in the otoliths of *Sarotherodon melanotheron*. *Journal of Fish Biology*. <https://doi.org/10.1111/j.1095-8649.2000.tb02230.x>
38. A. Asabere-Ameyaw, J. Blay (1999). Growth and mortality parameters of *Pagellus bellottii* (sparidae) in the Cape Coast area of Ghana. *Journal of the Ghana Science Association*. <https://doi.org/10.4314/jgsa.v1i2.17805>
39. john blay (1999). Growth and mortality parameters of *Pagellus bellottii* (sparidae) in the Cape Coast area of Ghana. *Journal of the Ghana Science Association*. https://fishcomghana.ucc.edu.gh/wp-content/uploads/2017/01/Growth-and-mortality-parameters-of-Pagellus-bellottii_sparidae_in-the-Cape-Coast-area-of-Ghana.pdf
40. john blay (1998). Growth and mortality parameters of *Sarotherodon melanotheron*

(Teleostei: Cichlidae) in two brackish water systems in Ghana. *Ghana Journal of Science*. <https://agris.fao.org/search/en/providers/122427/records/64724d6353aa8c8963059be7>

41. John Blay (1997). Occurrence and diversity of juvenile marine fishes in two brackishwater systems in Ghana. *Biodiversity conservation: Traditional knowledge and modern concepts*. <https://scholar.google.com/scholar?cluster=8370592720619191320&hl=en&oi=scholar>
42. John Blay (1996). Preliminary observations on the benthic macrofauna of a polluted coastal lagoon in Ghana (West Africa). *Tropical Ecology*. https://fishcomghana.ucc.edu.gh/wp-content/uploads/2017/01/Preliminary-observations-on-the-benthic-macrofauna-of-a-polluted-coastal-lagoon-in-Ghana_West-Africa.pdf
43. John Blay (1996). Seasonal changes in hydrographic factors and breeding in two population of *Crassostea tulupa* (Lamarch). *Ghana Journal of Science*. <https://www.ajol.info/index.php/gjs/article/view/47986/34354>
44. John Blay (1995). Food and diel feeding periodicity of juvenile sicklefin mullet, *Liza falcipinnis* (Mugilidae) in a closed tropical lagoon. *Cybium (Paris)*. <https://pascal-francis.inist.fr/vibad/index.php?action=getRecordDetail&idt=2975436>
45. J. Blay (1995). Food and feeding habits of four species of juvenile mullet (Mugilidae) in a tidal lagoon in Ghana. *Journal of Fish Biology*. <https://doi.org/10.1111/j.1095-8649.1995.tb05952.x>
46. J. Blay, A. Asabere-Ameyaw (1993). Assessment of the fishery of a stunted population of the cichlid, *Sarotherodon melanotheron* (Rüppel), in a "closed" lagoon in Ghana. *Journal of Applied Ichthyology*. <https://doi.org/10.1111/j.1439-0426.1993.tb00382.x>
47. John Blay (1990). Fluctuations in some environmental factors and the condition index of *Aspatharia sinuata* (Bivalvia, Unionacea) in a small reservoir in Nigeria. *Archive fur Hydrobiologie*.
48. John Jr. Blay (1989). Morphometry, length-weight relationships and length distributions of five populations of the freshwater bivalve *Aspatharia sinuata* (Unionacea, Mutelidae) in Nigeria. *Malacologia*. <https://pascal-francis.inist.fr/vibad/index.php?action=getRecordDetail&idt=6630928>
49. John Blay (1987). Observations on the Growth of some Populations of the Freshwater Bivalve *Aspatharia sinuata* (Unionacea, Mutelidae) in Nigeria. *The Korean Journal of Zoology*. <https://www.dbpia.co.kr/Journal/articleDetail?nodeId=NODE09734703>
50. John Blay (1985). Observations on the balance in fish populations in a small reservoir in Ghana. *Fisheries Research*. [https://doi.org/10.1016/0165-7836\(85\)90003-7](https://doi.org/10.1016/0165-7836(85)90003-7)
51. J. Blay, K. N. Eyeson (1982). Feeding activity and food habits of the shad, *Ethmalosa fimbriata* (Bowdich), in the coastal waters of Cape Coast, Ghana. *Journal of Fish Biology*. <https://doi.org/10.1111/j.1095-8649.1982.tb02845.x>
52. J. Blay, K. N. Eyeson (1982). Observations on the reproductive biology of the shad, *Ethmalosa fimbriata* (Bowdich), in the coastal waters of Cape Coast, Ghana. *Journal of Fish Biology*. <https://doi.org/10.1111/j.1095-8649.1982.tb02854.x>
53. John Blay (1981). Fecundity and spawning frequency of *Sarotherodon galilaeus* in a concrete pond. *Aquaculture*. [https://doi.org/10.1016/0044-8486\(81\)90103-4](https://doi.org/10.1016/0044-8486(81)90103-4)

Book chapters 2

1. Elizabeth Effah, Denis W. Aheto, Emmanuel Acheampong, John Blay (2023). Ghana Case Study Two. *Challenges in Tropical Coastal Zone Management*. https://doi.org/10.1007/978-3-031-17879-5_14
2. K Yankson, J Blay (2016). Rebuilding Depleted Small Pelagic Stocks in Ghana. A Closed Fishing Season Proposal to the Ministry of Fisheries and Aquaculture Development. *The Scientific and Technical Working Group. The USAID/Ghana Sustainable Fisheries Management Project (SFMP)*. <https://scholar.google.com/scholar?cluster=4078406643248462669&hl=en&oi=scholar>

Reports 4

1. john blay (2019). On-farm Floating Feed Formulation for Growth and Survival of Tilapia. *Éditions universitaires européennes*. <https://scholar.google.com/scholar?cluster=2098596466531220741&hl=en&oi=scholar>
2. John Blay (2009). Lagoon tilapia: bioprofile and prospects for coastal fisheries. *University of Cape Coast*. <https://ir.ucc.edu.gh/items/50a84f1f-1fbc-47f1-99f9-3d2bf9ea7436>
3. John Blay (2000). Assessment of the shery, growth and mortality characteristics of the cassava croaker, *Pseudolithus senegalensis* (Sciaenidae) from coastal waters of Ghana. *University of Cape Coast*. <https://ir.ucc.edu.gh/items/f939850e-3fbc-4ec0-b74f-baa93d62c44c>
4. john blay (1995). Aspects of the feeding biology of porogobius schlegeui (gunther)(pisces: gobiidae) in the Fosu lagoon, Ghana. *University of Cape Coast*. <https://ir.ucc.edu.gh/items/d67bf243-91bf-43e5-85f5-7b6df369b72b>

Theses 1

1. john blay (2001). I hereby declare that this thesis is the result of my own original research and that no part of it has been presented for another degree in this University or. *University of Cape Coast*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/be802387-f719-4fe2-a6d5-d58625f79f78/content>