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RESEARCH

Interests: Fisheries Science · Fisheries Management · Coastal Management · Coastal Ecosystems Ecology · Biological Control

Areas: Ecology · Global and Planetary Change · Aquatic Science · Management, Monitoring, Policy and Law · Nature and Landscape Conservation · Endocrinology

RESEARCH SUMMARY

48	839	16	23	1.69	23%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 48 publications listed below, 2011–2026. Field-weighted impact is the mean over the 30 works scored for it; 1.00 is the world average for works of the same field, type and year. 7 of the 30 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer, Fisheries Scientist 2016–present
Department of Fisheries and Aquatic Sciences, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

Ph.D. M.Phil. BSc.- Fisheries Scientist and Aquatic Ecologist 2003–present
Department of Fisheries and Aquatic Sciences, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 42

1. Elizabeth Agyekumwaa, **Isaac Okyere**, Joseph Sefah Debrah (2025). Drivers of Cetacean Exploitation: The Case of Ghanaian Coastal Waters in the Gulf of Guinea. *Aquatic Conservation Marine and Freshwater Ecosystems*. https://doi.org/10.1002/aqc.70197
2. Samuel Bridge Nkansah, Nazir Kizzie-Hayford, Vivianne Geraldo, Selorm Omega, Salifu Seidu-Larry, **Isaac Okyere**, Jerry Ampofo-Asiama (2025). The Effects of Oven Type on the Quality of Smoked Fish: Comparison Between the Use of the Chorkor and Ahotor Ovens in Ghana. *Journal of Aquatic Food Product Technology*. https://doi.org/10.1080/10498850.2025.2465633
3. Michael S. Dei-Dzeha, Nicholas T. K. D. Dayie, Yacoba Atiase, Bismark B. Baah, Patience B. Tetteh-Quarcoo, Mary-Magdalene Osei, Grace O. Semevor, **Isaac Okyere**, Fleischer C. N. Kotey, Eric S. Donkor (2024). Comparison of nasopharyngeal bacteriological profile between patients with diabetes and healthy individuals in Accra, Ghana. *BMC Research Notes*. https://doi.org/10.1186/s13104-024-07003-3
4. Temitope Adewale, Denis Aheto, **Isaac Okyere**, Olufemi Soyinka, Samuel Dekolo (2024). Effects of Anthropogenic Activities on Sardinella maderensis (Lowe, 1838) Fisheries in Coastal Communities of Ibeju-Lekki, Lagos, Nigeria. *Sustainability*. https://doi.org/10.3390/su16072848
5. Vivianne Geraldo, Jerry Ampofo-Asiama, Cynthia A. Adinortey, **Isaac Okyere**, Samuel Kofi Tulashie, Alexander Tetteh Kwasi Nuer, Samuel Bridge Nkansah, Selorm Omega, Salifu Seidu-Larry, Nazir Kizzie-

Hayford (2024). Implementation of good manufacturing practices (GMP) to improve the quality of smoked fish (Scomber colias). *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e27401

6. Edem Mahu, Tyronne Jude Vanderpuye-Orgle, Charles Mario Boateng, Maurice Oti Edusei, Gabriella Akpah Yeboah, Ernest Obeng Chuku, Paulina Okpei, **Isaac Okyere**, David Dodoo-Arhin, Edward Akinnigbagbe Akintoye (2024). Quantification and characterization of microplastics ingested by mangrove oysters across West Africa. *Environmental Science and Pollution Research*. https://doi.org/10.1007/s11356-024-34470-9
7. **Isaac Okyere**, Ernest Obeng Chuku, Selorm Awiah Dzantor, Violet Ahenkorah, Richard Adade (2023). Capacity deficit and marginalisation of artisanal fishers hamper effective fisheries governance in Ghana: Insights and propositions for promoting sustainable small-scale fisheries. *Marine Policy*. https://doi.org/10.1016/j.marpol.2023.105640
8. Ebenezer Ebo Yahans Amuah, Bernard Fei-Baffoe, Raymond Webrah Kazapoe, Paul Dankwa, **Isaac Kwaku Okyere**, Lyndon Nii Adjiri Sackey, Douti Biyogue Nang, Prosper Kpiebaya (2023). From the ground up: Unveiling Ghana's soil quality crisis and its ecological and health implications. *Innovation and Green Development*. https://doi.org/10.1016/j.igd.2023.100097
9. Emmanuel Ameyaw, **Isaac Okyere**, Taiba Jibril Afaa, Rita Ameyaw, Thomas O. Konney, Patience Tuah (2022). Malaria and Urinary Tract Infections among Children Under five Years with Malnutrition at a District Hospital in Ghana. *Infection Epidemiology and Microbiology*. https://doi.org/10.52547/iem.8.1.43
10. 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
11. Ernest Obeng Chuku, Elizabeth Effah, Joshua Adotey, Sika Abrokwah, Richard Adade, **Isaac Okyere**, Denis Worlanyo Aheto, Karen Kent, Isaac Kofi Osei, Emmanuel Dami Omogbemi, Alphonse Adité, Kossi Ahoedo, Salieu Kabba Sankoh, Yaya Soro, Moussa Wélé, Dawda Foday Saine, Brian Crawford (2022). Spotlighting Women-Led Fisheries Livelihoods Toward Sustainable Coastal Governance: The Estuarine and Mangrove Ecosystem Shellfisheries of West Africa. *Frontiers in Marine Science*. https://doi.org/10.3389/fmars.2022.884715
12. Isaac Kofi Osei, Kobina Yankson, Edward Adzesiwor Obodai, **Isaac Okyere** (2021). Implications of overlooked seasonal growth dynamics in tropical fisheries assessment: A test case of an oyster (Crassostrea tulipa) fishery in the Densu Delta, Ghana. *Fisheries Research*. https://doi.org/10.1016/j.fishres.2021.106118
13. **I Okyere**, DB Angnuureng, NK Asare, DW Aheto (2021). Report on Monthly Monitoring of SFMP COVID-19 Intervention Sites and Close-out for UCC's Activities. *The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island, and Centre for Coastal Management, University of Cape Coast, Cape Coast, Ghana. GH2014_COV105_UCC*. https://www.crc.uri.edu/download/GH2014_COV105_UCC_FIN508.pdf
14. Ebenezer Ebo Yahans Amuah, Emmanuel Martin Obeng Bekoe, Raymond Webrah Kazapoe, Paul Dankwa, Solomon Nandomah, Nang Biyogue Douti, Samuel Kojo Abanyie, **Isaac Kwaku Okyere** (2021). Sachet water quality and Vendors' practices in Damongo, northern Ghana during the emergence of SARS-CoV-2 using multivariate statistics, water quality and pollution indices, and panel assessment. *Environmental Challenges*. https://doi.org/10.1016/j.envc.2021.100164
15. **Isaac Okyere** (2021). Socio-Economic Systems Response to Upwelling Variability in Small-Scale Fisheries: The Case of a Beach Seine Fishery in Ghana. *Coastal Management*. https://doi.org/10.1080/08920753.2022.2006883
16. **Isaac Okyere**, Juliet Afrah Obeng, Samuel Ayitey, Jouke Rients Van der Zee, Herman Meeus (2021). Spawning habits and embryonic development of the banded lampeye killifish Aplocheilichthys spilauchen (Duméril 1861) in ex situ fresh and brackish water environments. *Journal of Fish Biology*. https://doi.org/10.1111/jfb.14729
17. **Isaac Okyere**, Daniel J. Skerritt, Anna Schuhbauer, Sebastian Villasante, Andrés M. Cisneros-Montemayor, Hussain Sinan, Duncan Burnside, Patrízia Raggi Abdallah, Keita Abe, Kwasi A. Addo and 90 others (2021). WTO must ban harmful fisheries subsidies. *Science*. https://doi.org/10.1126/science.abm1680

18. **I Okyere**, S Dzantor, Adade (2020). Assessment of the State of Fisheries Governance in Ghana. *EU funded Far Ban Bo*. https://www.researchgate.net/profile/Isaac-Okyere-6/publication/344320111_Assessment_of_the_State_of_Fisheries_Governance_in_Ghana/links/5f6747bd458515b7cf419e53/Assessment-of-the-State-of-Fisheries-Governance-in-Ghana.pdf

19. **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

20. **I Okyere**, DB Angnuureng, NK Asare, DW Aheto (2020). COVID-19: mapping and baseline survey of fish landing beaches, processing sites and markets. *The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island, and Centre for Coastal Management, University of Cape Coast, Cape Coast, Ghana. GH2014_COV119_UCC*. https://www.crc.uri.edu/download/GH2014_COV119_UCC_FIN508.pdf

21. Alberta Ama Sagoe, Denis Worlanyo Aheto, **Isaac Okyere**, Richard Adade, Justice Odoi (2020). Community participation in assessment of fisheries related ecosystem services towards the establishment of marine protected area in the Greater Cape Three Points area in Ghana. *Marine Policy*. https://doi.org/10.1016/j.marpol.2020.104336

22. Paulina Okpei, Joseph Aggrey-Fynn, **Isaac Okyere** (2020). Growth, mortality, ovarian maturity, and exploitation of the Guinea shrimp, Holthuispenaeopsis atlantica (Balss, 1914) (Decapoda: Dendrobranchiata: Penaeidae) in inshore waters of Ghana, West Africa. *Journal of Crustacean Biology*. https://doi.org/10.1093/jcbiol/ruaa010

23. J Aggrey-Fynn, **Isaac Okyere** (2020). Habitat distribution, species composition and size structure of penaeid shrimps (Decapoda: Dendrobranchiata: Penaeidae) in inshore waters of Ghana. *Journal of Fisheries and Coastal Management*. https://www.vliz.be/imisdocs/publications/ocrd/357997.pdf

24. Moses Kwesi Yalley, Daniel Adusu, Abdul-Rahman Bunyamin, **Isaac Okyere**, Austin Asare (2020). Natural Regeneration of Indigenous Tree Species in Broussonetia papyrifera Invaded Sites in Pra -Anum Forest Reserve. *International Journal of Forestry Research*. https://doi.org/10.1155/2020/6347962

25. **Isaac Okyere** (2020). Occurrence and food habits of the bagrid catfish Chrysichthys nigrodigitatus (Lacepède, 1803) in the Pra River Estuary, Ghana. *Journal of Fisheries and Coastal Management*. https://jfcomonline.com/fulltext/37-1552608299.pdf

26. **Isaac Okyere**, Ernest O. Chuku, Bernard Ekumah, Donatus B. Angnuureng, Justice K. Boakye-Appiah, David J. Mills, Raymond Babanawo, Noble K. Asare, Denis W. Aheto, Brian Crawford (2020). Physical distancing and risk of COVID-19 in small-scale fisheries: a remote sensing assessment in coastal Ghana. *Scientific Reports*. https://doi.org/10.1038/s41598-020-79898-4

27. **Isaac Okyere** (2019). Implications of the deteriorating environmental conditions of River Pra estuary (Ghana) for marine fish stocks. *Journal of Fisheries and Coastal Management*. https://acecor.ucc.edu.gh/sites/default/files/2020-01/Okyere-JFCoM%20paper.pdf

28. **Isaac Okyere** (2018). Assessment of the Ecological Health Status of River Pra Estuary (Ghana) and Adjoining Wetland using Physico-chemical Conditions and Macroinvertebrate Bioindicators. *West African Journal of Applied Ecology*. https://journals.ug.edu.gh/index.php/wajae/article/view/604

29. **Isaac Okyere** (2018). Influence of diurnal tides and other physico-chemical factors on the assemblage and diversity of fish species in River Pra Estuary, Ghana. *Tropical Ecology*. https://www.researchgate.net/profile/Isaac-Okyere-6/publication/325286408_Influence_of_diurnal_tides_and_other_physico-chemical_factors_on_the_assemblage_and_diversity_of_fish_species_in_River_Pra_Estuary_Ghana/links/5b0709aaa6fdcc8c25283d59/Influence-of-diurnal-tides-and-other-physico-chemical-factors-on-the-assemblage-and-diversity-of-fish-species-in-River-Pra-Estuary-Ghana.pdf

30. **Isaac Okyere**, Andreas A. Kudom, Pearl Sakyi-Djan (2018). Larval prey selectivity of the lampeye killifish Aplocheilichthys spilauchen and its potential for mosquito biocontrol. *Biological Control*. https://doi.org/10.1016/j.biocontrol.2018.11.010

31. **I Okyere** (2017). GITA-UCC-SFMP-HM-FC Collaborative Research for Improved Cuttlefish Management Progress Report. *The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island, Ghana Industrial*

Trawlers Association, University of Cape Coast, Hen Mpoano and Ghana Fisheries Commission. GH2014_SCI051_CRC. https://www.crc.uri.edu/download/GH2014_SCI051_CRC_FIN508.pdf

32. **Isaac Okyere** (2016). A Survey of the Benthic Macrofauna and Fish Species Assemblages in a Mangrove Habitat in Ghana. *West African Journal of Applied Ecology*.
33. Denis Worlanyo Aheto, Stephen Kankam, **Isaac Okyere**, Emmanuel Mensah, Adams Osman, Fredrick Ekow Jonah, Justice Camillus Mensah (2016). Community-based mangrove forest management: Implications for local livelihoods and coastal resource conservation along the Volta estuary catchment area of Ghana. *Ocean & Coastal Management*. https://doi.org/10.1016/j.ocecoaman.2016.04.006
34. Denis Worlanyo Aheto, **I Okyere**, NK Asare (2014). 1. A Survey of the Benthic Macrofauna and Fish Species Assemblages in a Mangrove Habitat in Ghana. *West African Journal of Applied Ecology*. https://journals.ug.edu.gh/index.php/wajae/article/view/888
35. Denis Worlanyo Aheto, **Isaac Okyere**, Noble Kwame Asare, Margaret F. A. Dzakpasu, Y. Wemegah, J. Dotsey-Brown, M. Longdon-Sagoe (2014). A Survey of the Benthic Macrofauna and Fish Species Assemblages in a Mangrove Habitat in Ghana. *West African Journal of Applied Ecology*.
36. Denis W. Aheto, Noble K. Asare, Belinda Quaynor, Emmanuel Y. Tenkorang, Cephas Asare, **Isaac Okyere** (2012). Profitability of Small-Scale Fisheries in Elmina, Ghana. *Sustainability*. https://doi.org/10.3390/su4112785
37. J Aggrey-Fynn, I Galyuon, DW Aheto, **I Okyere** (2011). Assessment of the environmental conditions and benthic macroinvertebrate communities in two coastal lagoons in Ghana. *Annals of Biological Research*. https://www.academia.edu/download/79235170/Assessment_of_the_environmental_conditio20220121-24680-18z0ndx.pdf
38. **I Okyere**, Denis W Aheto, J Aggrey-Fynn (2011). Comparative ecological assessment of biodiversity of fish communities in three coastal wetland systems in Ghana. *European Journal of Experimental Biology*.
39. **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*. https://doi.org/10.5296/jee.v3i1.892
40. **Isaac Okyere**, John Blay, Joseph Aggrey-Fynn (2011). Hydrographic Conditions and the Macrozoobenthos of a Coastal Wetland in Ghana.
41. **Isaac Okyere** (2011). Some ambient environmental conditions, food and reproductive habits of the banded lampeye killifish Aplocheilichthys spilauchen in the Kakum estuary wetland, Ghana. *Environmental Biology of Fishes*. https://doi.org/10.1007/s10641-011-9970-4
42. **Isaac Okyere** (2011). Spatio-temporal analysis of two coastal wetland systems in Ghana: Addressing ecosystem vulnerability and implications for fisheries development in the context…. *Archives of…*. https://www.academia.edu/download/95408582/spatiotemporal-analysis-of-two-coastal-wetland-systems-in-ghana-addressing-ecosystem-vulnerability-and-implications-for-.pdf

Book chapters 1

1. Samuel-Richard Kwame Bogobley, **Isaac Okyere**, Alhassan Abdul-Wakeel Karakara (2026). Where Policy Meets Practice: Evaluating the Effectiveness of Fisheries Co-Management Practices in Ghana's Coastal Regions. *Palgrave Studies in Maritime Economics*. https://doi.org/10.1007/978-3-032-25364-4_2

Conference papers 2

1. **Isaac Okyere** (2017). Industry-science collaboration: a pilot with collaborative research for improved cuttlefish management in Ghana. *Conference on Fisheries and Coastal Environment - Accra*.
2. Denis Aheto, **Isaac Okyere**, Cephas Asare, Emmanuel Tenkorang, Belinda Quaynor (2011). Economic Value Assessment of Small-Scale Fisheries in Elmina, Ghana. https://doi.org/10.3390/wsf-00719

Reports 1

1. EA Obodai, **I Okyere**, KK Mireku, DW Aheto (2011). Comparative study of tilapiine populations from two contrasting habitats in Ghana. *University of Cape Coast*. https://ir.ucc.edu.gh/items/8eb5e232-d6b2-4c14-89e0-46b66acf1f90

Theses 2

1. **Isaac Okyere** (2016). Assessment of aquatic ecosystems, the fishery and socio-economics of a coastal area in the Shama District, Ghana. *University of Cpae Coast*. https://fishcomghana.ucc.edu.gh/wp-content/uploads/2017/01/PHD_ASSESSMENT-OF-AQUATIC-ECOSYSTEMS-THE-FISHERY-AND-SOCIO-ECONOMICS-OF-A-COASTAL-AREA-IN-THE-SHAMA-DISTRICT-GHANA_Isaac-Okyere_2015.pdf
2. **Isaac Okyere** (2014). Observations on the benthic macroinvertebrate and fish communities of the Kakum Estuary Westland in Ghana. *University of Cape Coast*.