edward obodai

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RESEARCH

Interests	Aquaculture · Fisheries Management · Ecology · Limnology · Oceanography
Areas	Global and Planetary Change · Aquatic Science · Ecology · Nature and Landscape Conservation · Ocean Engineering · Pollution

RESEARCH SUMMARY

47	523	12	16	0.84	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 47 publications listed below, 1819–2026. Field-weighted impact is the mean over the 18 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 18 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 40

1. Isaac Kofi Osei, Kobina Yankson, **Edward Adzesiwor Obodai** (2026). Morphological Evidence of Phenotypic Plasticity in Shells of Oyster (Crassostrea tulipa) From Sub-Habitats in the Densu Estuary, Ghana. *Aquaculture Fish and Fisheries*. https://doi.org/10.1002/aff2.70170
2. Rahmat Quaigrane Duker, Noble Kwame Asare, **Edward Adzesiwor Obodai**, Joseph Kweku Adjei, Emmanuel Acheampong, Ernest Obeng Chuku (2024). Ecotoxicological and health risks associated with sediment-bound polycyclic aromatic hydrocarbons in peri-urban closed and open coastal lagoons. *Marine Pollution Bulletin*. https://doi.org/10.1016/j.marpolbul.2024.116351
3. J Aggrey-Fynn, **EA Obodai** (2024). Habitat distribution and diet analysis of two sympatric species of Balistes in the Western Gulf of Guinea. *International Journal of Ecology and Environmental Sciences*. https://nieindia.org/Journal/index.php/ijees/article/view/3318
4. Eric Appiah Krampah, Paul Kojo Mensah, Emmanuel Acheampong, **Edward Adzesiwor Obodai** (2024). Isolation and evaluation of local microalgal isolates as feed for larval rearing of Crassostrea tulipa towards optimisation of mangrove oyster seed production in Ghana. *Aquaculture Fish and Fisheries*. https://doi.org/10.1002/aff2.184
5. Ernest Obeng Chuku, Kobina Yankson, **Edward Adzesiwor Obodai**, Emmanuel Acheampong, Denis Worlanyo Aheto (2023). Spatiotemporal spatfall dynamics and prevailing estuarine conditions for optimal oyster (Crassostrea tulipa) spat availability in selected Gulf of Guinea brackish systems. *Frontiers in Marine Science*. https://doi.org/10.3389/fmars.2023.1075313
6. Isaac Kofi Osei, Kobina Yankson, **Edward Adzesiwor Obodai** (2022). Comparative analysis of growth performance and survival of the West African mangrove oyster, Crassostrea tulipa (Lamarck, 1819) cultivated by suspension and bottom culture methods in the Densu Estuary, Ghana. *Aquaculture Fish and Fisheries*. https://doi.org/10.1002/aff2.43
7. Isaac Kofi Osei, Kobina Yankson, **Edward Adzesiwor Obodai** (2021). Effect of sedentary biofoulers on the growth and survival of cultured oysters (Crassostrea tulipa) towards its mass culture in the Densu Delta, Ghana. *Aquaculture International*. https://doi.org/10.1007/s10499-021-00659-9
8. 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

9. IK Osei, Kobina Yankson, **EA Obodai** (2020). Demographic and profitability analyses of the West African mangrove oyster (Crassostrea tulipa) fishery in the Densu delta, Ghana. *Journal of Fisheries and Coastal Management*. https://www.researchgate.net/profile/Isaac-Osei-8/publication/347925470_Demographic_and_profitability_analyses_of_the_West_African_mangrove_oyster_Crassostrea_tulipa_fishery_in_the_Densu_delta_Ghana/links/6022951092851c4ed55e7e0c/Demographic-and-profitability-analyses-of-the-West-African-mangrove-oyster-Crassostrea-tulipa-fishery-in-the-Densu-delta-Ghana.pdf?origin=journalDetail&_tp=eyJwYWdlIjoiam91cm5hbERldGFpbCJ9
10. Ernest Obeng Chuku, Kobina Yankson, **Edward Adzesiwor Obodai**, Emmanuel Acheampong, Eunice Efua Boahemaa-Kobil (2020). Effectiveness of different substrates for collecting wild spat of the oyster Crassostrea tulipa along the coast of Ghana. *Aquaculture Reports*. https://doi.org/10.1016/j.aqrep.2020.100493
11. **Edward A Obodai**, E Acheampong (2019). Mangrove oyster farming: Prospects as supplementary livelihood for a Ghanaian fishing community. *Journal of Fisheries and Coastal Management*. https://www.academia.edu/download/61142276/37-1552287512_220191106-100717-1dt2ygd.pdf
12. **EA Obodai** (2016). Effects of feeding different agro-industrial by-products on carcass composition and sensory attributes of Oreochromis niloticus. *International Journal of Fisheries and Aquatic Studies*. https://www.researchgate.net/profile/Emmanuel-Abarike/publication/307973987_International_Journal_of_Fisheries_and_Aquatic_Studies_2016_45_168-172_Effects_of_feeding_different_agro-industrial_by-products_on_carcass_composition_and_sensory_attributes_of_Oreochromis_niloticus/links/57d4f9dd08ae5f03b491636f/International-Journal-of-Fisheries-and-Aquatic-Studies-2016-45-168-172-Effects-of-feeding-different-agro-industrial-by-products-on-carcass-composition-and-sensory-attributes-of-Oreochromis-niloticus.pdf
13. Antobre Osei Owusu, **Edward Adzesiwor Obodai** (2016). Environmental Determinants Influencing Fish Community Structure and Diversity in Two Distinct Seasons among Wetlands of Northern Region (Ghana). *International Journal of Ecology*. https://doi.org/10.1155/2016/1598701
14. Evans Kwasi Arizi, Joseph Aggrey-Fynn, **Edward Adzesiwor Obodai** (2015). Growth, Mortality and Exploitation Rates of Sarotherodon melanotheron in the Dominli Lagoon of Ghana. *Momona Ethiopian Journal of Science*. https://doi.org/10.4314/mejs.v7i2.8
15. Antobre Osei Owusu, **Edward Adzesiwor Obodai** (2014). Environmental Determinants Influencing Seasonal Variations of Bird Diversity and Abundance in Wetlands, Northern Region (Ghana). *International Journal of Zoology*. https://doi.org/10.1155/2014/548401
16. 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
17. Evans Arizi, **Edward Adzesiwor Obodai**, J Aggrey-Fynn (2014). Reproductive Biology of Sarotherodon melanotheron in the Dominli Lagoon, Ghana.
18. Robert Agbemafle, Genevieve E Adukpo, Aaron T Asare, **Edward A Obodai** (2013). Effects of pre-storage treatments (using brine and vinegar) and refrigerated storage on vitamin c, β carotene, microbial load and shelf-life of red pepper (Capsicum frutescens). *Asian Journal of Plant Science and Research*. https://ir.ucc.edu.gh/items/59fe2745-fae3-4003-b2d8-6745574ac998
19. DK Essumang, **EA Obodai**, CK Adokoh (2012). ASSESSMENT OF THE LEVELS OF MANGANESE, COBALT, COPPER AND IRON ALONG THE COASTAL BELT OF GHANA. *Blue Biotechnology Journal*. https://search.proquest.com/openview/a5fa6cc26697341d8761944610cff165/1?pq-origsite=gscholar&cbl=2034889
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21. **EA Obodai**, D.W. Aheto (2011). Coliform and Escherechia Coli levels in the Yellow Fin Tuna(Thunnus albacares) landed at the dixcove beach in Ghana. *Journal of Microbiology and Biotechnology Research*. https://doi.org/10.5555/20133073722
22. **EA Obodai**, CK Adokoh, DK Essumang (2011). Concentrations of heavy metals in two Ghanaian Lagoons. *Arch. Appl. Sci. Res*. https://www.academia.edu/download/124491418/concentrations-of-heavy-metals-in-two-ghanaian-lagoons.pdf
23. Agbemafle, Robert, E.Adukpo, Genevieve, T. Asare, Aaron, **A. Obodai, Edward** (2011). Effects of pre-storage treatments (using brine and vinegar) and refrigerated storage on vitamin c, ?Ž?²-carotene, microbial load and shelf-life of red pepper (Capsicum frutescens). *HAL (Le Centre pour la Communication Scientifique Directe)*.
24. HD Nyarko, **EA Obodai** (2011). Microbial profile of smoked sardine (Sardilella aurita) AT smoking sites and market centres of Tema, Ghana-1. *Archives of Applied Science Research*. https://doi.org/10.5555/20113246710
25. **edward obodai** (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
26. C. K. Adokoh, **E. A. Obodai**, D. K. Essumang, Y. Serfor-Armah, B. J. B. Nyarko, A. Asabere-Ameyaw (2011). Statistical Evaluation of Environmental Contamination, Distribution and Source Assessment of Heavy Metals (Aluminum, Arsenic, Cadmium, and Mercury) in Some Lagoons and an Estuary Along the Coastal Belt of Ghana. *Archives of Environmental Contamination and Toxicology*. https://doi.org/10.1007/s00244-011-9643-5
27. **E.A Obodai**, H.D Nyarko, S.L Amponsah (2010). Effect of Depuration on Microbial Content of Mangrove Oyster (Crassostr Ea Tulipa) From Benya Lagoon, Ghana. *Ethiopian Journal of Environmental Studies and Management*. https://doi.org/10.4314/ejesm.v3i2.59832
28. **edward obodai** (2009). Climate-data records and reforestation efforts in the Eighteenth and Nineteenth century Coromandel region in Peninsular India. *International Journal of Ecology and Environmental Sciences*. https://researchoutput.csu.edu.au/en/publications/climate-data-records-and-reforestation-efforts-in-the-eighteenth-/
29. **EA Obodai** (2007). Effect of recruitment period on the performance of cultured oysters in Ghana. *Journal of the Ghana Science Association*. https://www.africabib.org/rec.php?RID=Q00045049
30. **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
31. **EA Obodai** (2004). Studies on the atidza method of fishing at Nawuni, Northern region, Ghana. *Journal of the Ghana Science Association*. https://www.africabib.org/rec.php?RID=Q00042523
32. **EA Obodai** (2003). Preliminary observations on fishing activities in the Tono Dam, Upper-East Region, Ghana. *Journal of the Ghana Science Association*. https://www.africabib.org/rec.php?RID=Q00036622
33. **EA Obodai**, K Yankson (2002). The relative potential of three tidal lagoons in Ghana for oyster (carassostrea tulipa) culture. *Journal of Natural Sciences*. https://www.africabib.org/rec.php?RID=Q00034533
34. **EA Obodai**, K Yankson (2000). Effect of fouling organisms on cultured oysters, Crassostrea tulipa, in three Ghanaian lagoons. *Journal of the Ghana Science Association*. https://www.ajol.info/index.php/jgsa/article/view/17855
35. **Edward A. Obodai** (2000). Performance of oyster (Crassostrea tulipa) spat cultured at different densities. *Journal of the Ghana Science Association*. https://doi.org/10.4314/jgsa.v2i3.17886
36. K Yankson, **EA Obodai** (1999). An update of the number, types and distributin of coastal laggons in Ghana. *Journal of the Ghana Science Association*. https://www.ajol.info/index.php/jgsa/article/view/17967
37. **Edward A. Obodai**, K. Yankson (1999). Performance of oysters in reciprocal transplants between two

Ghanaian lagoons. *Journal of the Ghana Science Association*. https://doi.org/10.4314/jgsa.v1i2.17808

38. **EA Obodai** (1997). Studies of culturing of mangrove oyster, Crassostrea tulipa. *Ghana. Unpublished PhD thesis, Department of Zoology, University of Cape Coast*. https://scholar.google.com/scholar?cluster=2971879269658385276&hl=en&oi=scholarr

39. **edward obodai** (1996). Seasonal changes in biochemical composition of the mangrove oyster, Crossostrea Tulipa (Lamarck) occurring in two coastal water bodies in Ghana. *Ghana Journal of Science*. https://www.ajol.info/index.php/gjs/article/view/47981/34353

40. **EA Obodai** (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

Book chapters 1

1. Isaac Kofi Osei, **Edward Adzesiwor Obodai**, Denis Worlanyo Aheto (2024). Biofouling of the Mangrove Oyster (Crassostrea tulipa, Lamarck, 1819) Cultivation: The West African Perspective. *Agricultural sciences.*. https://doi.org/10.5772/intechopen.114324

Reports 3

1. DK Essumang, **EA Obodai**, CK Adokoh (2013). Assessment of the Levels of Manganese, Cobalt, Copper and Iron along the Coastal belt of Ghana. *Nova Science Publishers*. https://ir.uew.edu.gh/handle/123456789/570

2. **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

3. HD Nyarko, **EA Obodai** (2011). This research was conducted at three fish smoking sites and three marketing centres in the Tema municipality, to compare the microbial load of smoked sardine (Sardinella aurita .... *University of Cape Coast*. https://ir.ucc.edu.gh/items/aec0d95a-2083-4ab1-89f7-e855a93006a1

Theses 2

1. **edward obodai** (2022). Cyber fraud among the youth in Ghana the case of some students in a private university. *University of Education Winneba*. https://ir.uew.edu.gh/handle/123456789/2181

2. **EA Obodai** (1997). Studies on the culturing of the mangrove oyster Crassostrea tulipa in Ghana. *Doctoral thesis, Department of Zoology, University of Cape Coast, Ghana*. https://scholar.google.com/scholar?cluster=9741076949283683262&hl=en&oi=scholarr

Other publications 1

1. K Yankson, **EA Obodai**, E Acheampong (1819). Evaluating the effectiveness of local materials for the wild oyster (Crassostrea tulipa Lamarck, 1819) spat collection in four coastal waterbodies in Ghana. *Department of Animal and Aquacultural Sciences (IHA)*.