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RESEARCH

Interests	1. Aquatic functional groups (e.g · diatoms · macrozooplankton) · 2. Plankton community evolution
Areas	Global and Planetary Change · Oceanography · Ecology · Pollution · Health, Toxicology and Mutagenesis · Biomaterials

RESEARCH SUMMARY

29	306	10	10	1.03	5%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 29 publications listed below, 1819–2026. Field-weighted impact is the mean over the 19 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 19 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

University of Cape Coast
Cape Coast, Ghana

PUBLICATIONS

Journal articles 26

1. **Emmanuel Acheampong**, A Koomson, Benjamin Nyarko (2026). Mangrove forest degradation can dramatically alter macroinfaunal community composition and functioning. *Marine Ecology Progress Series*. https://www.int-res.com/journals/meps/articles/meps15115
2. Olga Anadoli, Hawa Bint Yaqub, Maryse Aka, Estelle S Konan, **Emmanuel Acheampong**, Jerome Adonis Zuweh, Lynette John, Stamatina Isari (2026). Mesozooplankton distribution in the Guinea Current Large Marine Ecosystem (GCLME) during the west African monsoon: a comparison across subsystems. *Journal of Plankton Research*. https://doi.org/10.1093/plankt/fbag050
3. Rael Adhiambo, Albert Koomson, **Emmanuel Acheampong**, Paul Kojo Mensah (2025). Interactive effects of salinity, cadmium, and pyrene on the diatom Thalassiosira weissflogii under simulated tropical coastal conditions. *Ecotoxicology*. https://doi.org/10.1007/s10646-025-03006-3
4. Rael Adhiambo, Paul Kojo Mensah, Albert Koomson, **Emmanuel Acheampong** (2025). Navigating stress: Impacts of temperature, polycyclic aromatic hydrocarbons, and heavy metals on the diatom Thalassiosira weissflogii adapted to tropical waters of the Gulf of Guinea. *Aquatic Toxicology*. https://doi.org/10.1016/j.aquatox.2025.107388
5. 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
6. F. Abubakar, A. Boateng, D. Asiedu, E. Chuku, K. K. Mireku, **E. Acheampong** (2024). Efficient Low-Technology Apparatus for Sterilising Seawater for Mariculture Research. *Journal of applied science and environmental management*. https://doi.org/10.4314/jasem.v28i10.34

7. 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
8. **E. Acheampong** (2024). Phytoplankton as Indicators of Climate Change. *Scholarly Community Encyclopedia. https://encyclopedia.pub/entry/53591*.
9. Rael Adhiambo, Paul Kojo Mensah, **Emmanuel Acheampong**, Eric Appiah Krampah (2024). Plankton assemblages in a tropical West African estuary. *Aquatic Sciences*. https://doi.org/10.1007/s00027-024-01085-8
10. Bryony Townhill, Olivia Harrod, Suzanne Painting, **Emmanuel Acheampong**, James Bell, Benjamin Kofi Nyarko, Georg Engelhard (2023). Climate change risk and adaptation for fisher communities in Ghana. *Journal of Coastal Conservation*. https://doi.org/10.1007/s11852-023-00967-7
11. 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
12. Giovanna Albani, Delove Asiedu, Sika Abrokwah, Sigrún H. Jónasdóttir, Torkel G. Nielsen, **Emmanuel Acheampong**, Laura Hernández Ruiz, Bernard Ekumah, Marja Koski (2023). Synergistic and additive effects of microplastic, nickel and pyrene on survival, reproduction, and egestion of a tropical copepod. *Aquatic Toxicology*. https://doi.org/10.1016/j.aquatox.2023.106737
13. Rael Adhiambo, Paul Kojo Mensah, **Emmanuel Acheampong** (2023). Widespread Geographical Disparities in Phytoplankton Ecology Research in the Face of Climate Change: A Review. *Water*. https://doi.org/10.3390/w15244288
14. 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
15. Kobina Yankson, **E Acheampong** (2022). Towards diversification of aquacul-ture in Ghana: Reproductive response of Sarotherodon melanotheron to locally formulated fish feed (2022) Journal of Aquaculture. *Fisheries & Fish Science*. https://www.siftdesk.org/articles/pdf/Towards-diversification-of%20aquaculture-in-Ghana20220704194903.pdf
16. Robin Cook, **Emmanuel Acheampong**, Joseph Aggrey-Fynn, Michael Heath (2021). A fleet based surplus production model that accounts for increases in fishing power with application to two West African pelagic stocks. *Fisheries Research*. https://doi.org/10.1016/j.fishres.2021.106048
17. Elizabeth Effah, Denis Worlanyo Aheto, **Emmanuel Acheampong**, Samuel Kofi Tulashie, Joshua Adotey (2021). Human health risk assessment from heavy metals in three dominant fish species of the Ankobra river, Ghana. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2021.05.010
18. **E Acheampong**, P Mantey, A Weremfo (2021). Potential impact of marine heatwaves on selected phytoplankton adapted to the Gulf of Guinea during stable hydrographic periods. *African Journal of Marine Science*. https://doi.org/10.2989/1814232x.2021.1879267
19. Laura Hernández Ruiz, Bernard Ekumah, Delove Abraham Asiedu, Giovanna Albani, **Emmanuel Acheampong**, Sigrún H. Jónasdóttir, Marja Koski, Torkel Gissel Nielsen (2020). Climate change and oil pollution: A dangerous cocktail for tropical zooplankton. *Aquatic Toxicology*. https://doi.org/10.1016/j.aquatox.2020.105718
20. 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
21. Kobina Yankson, **E Acheampong** (2020). Effects of tidal exposure on bivalve molluscs: first stab at the case of west african mangrove oyster (Crassostrea tulipa) in Benya lagoon, Elmina, Ghana. *Journal of Fisheries and Coastal Management*. https://jfcomonline.com/fulltext/37-1584480533.pdf

22. 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

23. **E Acheampong** (2015). Streamlining monitoring and evaluation systems in managing social development interventions: a study of Ahafo mine area livelihood programmes. *Kumasi: Kwame Inkrumah University of Science and Technology*. https://scholar.google.com/scholar?cluster=14217525828086712659&hl=en&oi=scholarr

24. **Emmanuel Acheampong**, Inga Hense, Michael A. St. John (2013). A model for the description of feeding regulation by mesozooplankton under different conditions of temperature and prey nutritional status. *Ecological Modelling*. https://doi.org/10.1016/j.ecolmodel.2013.09.009

25. **E Acheampong** (2012). Towards an adaptive model for simulating growth of marine mesozooplankton: a macromolecular perspective. *Ecological Modelling*. https://www.sciencedirect.com/science/article/pii/S0304380011005205

26. **E Acheampong** (2011). Food availability effects on reproductive strategy: the case of Acartia tonsa (Copepoda: Calanoida). *Marine Ecology Progress Series*. https://www.int-res.com/journals/meps/articles/meps09061

Book chapters 1

1. Martin Opoku, Albert Koomson, Furkan Abubakar, Michael Miyittah, **Emmanuel Acheampong** (2023). Cadmium exposure experiments on calanoid copepods reveal significant shortfall in water quality criteria for managing coastal marine ecosystems in West Africa. *Journal of Coastal Conservation*. https://doi.org/10.1007/s11852-023-01009-y

Theses 1

1. **Emmanuel Acheampong** (2011). Copepod production: The interplay between abiotic environment, prey biochemical composition and consumers' requirements. *Staats-und Universitätsbibliothek Hamburg Carl von Ossietzky*. https://ediss.sub.uni-hamburg.de/handle/ediss/4254

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)*.