Paul Kojo Mensah

Senior Lecturer · Department of Fisheries and Aquatic Sciences
University of Cape Coast

ORCID 0000-0002-5383-9403 · Homepage directory.ucc.edu.gh/p/paul-kojo-mensah · Google Scholar scholar.google.com/citations?user=6AUT-_gAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/bfd1e4f5-4cdf-410e-92a6-8c9eb9f927f2

RESEARCH

Interests: ecotoxicology · water quality · biomonitoring · aquatic ecology · water science education · Macroinvertebrates Biomonitoring · Water Quality Guidelines · Water Qu

Areas: Ecology · Health, Toxicology and Mutagenesis · Pollution · Nature and Landscape Conservation · Oceanography · Environmental Chemistry

RESEARCH SUMMARY

47	932	13	14	2.04	18%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 47 publications listed below, 2011–2026. Field-weighted impact is the mean over the 34 works scored for it; 1.00 is the world average for works of the same field, type and year. 6 of the 34 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

University of Cape Coast School of Biological Sciences 2018–present
Fisheries and Aquatic Sciences, Cape Coast, Ghana

Rhodes University 2013–2018
Institute for Water Research, Grahamstown, South Africa

PUBLICATIONS

Journal articles 41

1. Dormarine Kwaboah Tuffour, **Paul Kojo Mensah**, Margaret Fafa Awushie Akwetey (2026). Ecological quality assessment of the Keta Lagoon, Ghana: integrating water quality, sediment quality, and benthic macroinvertebrates. *Water Science*. https://doi.org/10.1007/s44533-026-00060-6
2. **Paul Kojo Mensah**, Margaret Fafa Awushie Akwetey (2026). Impact of beach seining on macroalgae biomass and biodiversity on the central coast of Ghana before and after closed season. *Regional Studies in Marine Science*. https://www.sciencedirect.com/science/article/pii/S2352485526001040
3. Mary Opeyemi Adebote, Joseph Aggrey-Fynn, **Paul Kojo Mensah** (2025). Assessing mercury and lead pollution in the Ankobra estuary due to artisanal mining activities: Implications for water quality and aquatic life. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0325909
4. 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
5. Margaret Fafa Awushie Akwetey, Charles Abimbola Faseyi, **Paul Kojo Mensah**, Sika Abrokwah, Gabriel Gator, Gifty Wiredu, Theophilus Oteng-Krah, Eric Appiah Krampah, Daniel Pauly (2025). Juvenile Species in Beach Seine Bycatch Along the Coast of Ghana: Any Implications for Fisheries? *Marine Ecology*. https://doi.org/10.1111/maec.70014
6. 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

7. Janet Frimpomaa, **Paul Kojo Mensah**, Kwasi Twum Antwi-Agyakwa, Bapentire Donatus Angnuureng (2025). Sediment particle sizes and river discharge implications on shoreline change along Anlo Beach, Ghana. *Regional Studies in Marine Science*. https://doi.org/10.1016/j.rsma.2025.104095
8. **Paul Kojo Mensah**, Neil John Griffin, Ntombekhaya Mgaba, Margaret Fafa Awushie Akwetey, Oghenekaro Nelson Odume (2025). Toxicity of Commonly Used Plasticizers to the Freshwater Organisms Tilapia sparrmanii (Fish) and Caridina nilotica (Shrimp): Lethal and Sublethal Effects. *Environmental Toxicology*. https://doi.org/10.1002/tox.24563
9. Dorothy Khasisi Lukhabi, **Paul Kojo Mensah**, Noble Kwame Asare, Margaret Fafa Awushie Akwetey, Charles Abimbola Faseyi (2024). Benthic macroinvertebrates as indicators of water quality: A case study of estuarine ecosystems along the coast of Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e28018
10. **Paul Kojo Mensah**, Margaret Fafa Awushie Akwetey (2024). Effective toxicity of pH to embryonic development of the banded lampeye killifish Aplocheilichthys spilauchen (Duméril, 1861). *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e32771
11. 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
12. 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
13. **PK Mensah** (2024). South African Water Quality Guidelines for Freshwater Ecosystems–Version 2. *Water Research Commission, Pretoria, South Africa*. https://www.wrc.org.za/?mdocs-file=65190
14. Dorothy Khasisi Lukhabi, **Paul Kojo Mensah**, Noble Kwame Asare, Tchaka Pulumuka-Kamanga, Kennedy Ochieng Ouma (2023). Adapted Water Quality Indices: Limitations and Potential for Water Quality Monitoring in Africa. *Water*. https://doi.org/10.3390/w15091736
15. Margaret Fafa Awushie Akwetey, **Paul Kojo Mensah**, Gertrude Tibu, Naomi Aku Agboli, Gifty Wiredu (2023). Before and after closed season for beach seine fishing in Ghana: Impact on benthic macroinvertebrates species diversity indices. *Marine Ecology*. https://doi.org/10.1111/maec.12784
16. 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
17. **PK Mensah** (2022). Assessment of Heavy Metal Contents of Rivers and wastewaters in the Eastern Cape Province of Southafrica. *Confluence J. Environ. Stud*. https://www.researchgate.net/profile/Adebayo-Farounbi/publication/360528038_ASSESSMENT_OF_HEAVY_METAL_CONTENTS_OF_RIVERS_AND_WASTEWATERS_IN_THE_EASTERN_CAPE_PROVINCE_OF_SOUTH_AFRICA/links/627bf2b13a23744a727717ac/ASSESSMENT-OF-HEAVY-METAL-CONTENTS-OF-RIVERS-AND-WASTEWATERS-IN-THE-EASTERN-CAPE-PROVINCE-OF-SOUTH-AFRICA.pdf
18. Adebayo I. Farounbi, **Paul K. Mensah**, Emmanuel O. Olawode, Nosiphiwe P. Ngqwala (2020). 1H-NMR Determination of Organic Compounds in Municipal Wastewaters and the Receiving Surface Waters in Eastern Cape Province of South Africa. *Molecules*. https://doi.org/10.3390/molecules25030713
19. Sinoyolo Nondlazi, Nosiphiwe Ngqwala, Bongumusa M. Zuma, **Paul K. Mensah**, Roman Tandlich (2019). Effect of fly ash-lime treatment on the acute toxicity of greywater towards Daphnia magna. *Nova Biotechnologica et Chimica*. https://doi.org/10.2478/nbec-2019-0008
20. Frank Chukwuzuoke Akamagwuna, **Paul Kojo Mensah**, Chika Felicitas Nnadozie, Oghenekaro Nelson Odume (2019). Evaluating the responses of taxa in the orders Ephemeroptera, Plecoptera and Trichoptera (EPT) to sediment stress in the Tsitsa River and its tributaries, Eastern Cape, South Africa. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-019-7846-9

21. Frank Chukwuzuoke Akamagwuna, **Paul Kojo Mensah**, Chika Felicitas Nnadozie, Oghenekaro Nelson Odume (2019). Trait-based responses of Ephemeroptera, Plecoptera, and Trichoptera to sediment stress in the Tsitsa River and its tributaries, Eastern Cape, South Africa. *River Research and Applications*. https://doi.org/10.1002/rra.3458

22. EC Vellemu, **PK Mensah**, N Griffin, ON Odume (2018). Derivation of scenario-specific water quality guidelines for acid mine drainage in South Africa, using a risk-based approach. *African Journal of Aquatic Science*. https://doi.org/10.2989/16085914.2018.1446126

23. **PK Mensah** (2018). Literature review and terms of reference for case study for linking the setting of water quality license conditions with resource quality objectives and/or site-specific …. *Water Research Commission: Gezina, South Africa*. https://www.wrc.org.za/wp-content/uploads/mdocs/2782-1-17.pdf

24. **PK Mensah** (2018). Usando una aproximación basada en riesgo para desarrollar una guía de calidad de agua para sulfato. *Mine Water and the Environment*. https://scholar.google.com/scholar?cluster=11685832811674899306&hl=en&oi=scholarr

25. **Paul K. Mensah**, Ntombekhaya Mgaba, Neil Griffin, Oghenekaro N. Odume, Carolyn G. Palmer (2017). Development of a procedure for determining the mixing ratios in ecotoxicological experiments and its application in binary salt mixture experiments. *Ecotoxicology*. https://doi.org/10.1007/s10646-017-1829-9

26. Grace Emily Okuthe, **Paul Kojo Mensah** (2017). Normal Anatomy and Histology of Larval and Adult Caridina nilotica. *Mechanisms of Development*. https://doi.org/10.1016/j.mod.2017.04.267

27. E.C. Vellemu, **P.K. Mensah**, N.J. Griffin, O.N. Odume (2017). Sensitivity of the mayfly Adenophlebia auriculata (Ephemeroptera: Leptophlebiidae) to MgSO 4 and Na 2 SO 4. *Physics and Chemistry of the Earth Parts A/B/C*. https://doi.org/10.1016/j.pce.2017.06.009

28. E. C. Vellemu, **P. K. Mensah**, N. J. Griffin, O. N. Odume, C. G. Palmer, R. Dowse (2017). Using a Risk-based Approach for Derivation of Water Quality Guidelines for Sulphate. *Mine Water and the Environment*. https://doi.org/10.1007/s10230-017-0480-2

29. Oghenekaro Nelson Odume, Carolyn G. Palmer, Francis O. Arimoro, **Paul K. Mensah** (2016). Chironomid assemblage structure and morphological response to pollution in an effluent-impacted river, Eastern Cape, South Africa. *Ecological Indicators*. https://doi.org/10.1016/j.ecolind.2016.03.001

30. **P Mensah** (2016). Ion-specific standards are needed to protect biodiversity. *Science*. https://scholar.google.com/scholar?cluster=16955752267107502 29&hl=en&oi=scholarr

31. M. Cañedo-Argüelles, C. P. Hawkins, B. J. Kefford, R. B. Schäfer, B. J. Dyack, S. Brucet, D. Buchwalter, J. Dunlop, O. Frör, J. Lazorchak, … **P. Mensah** and 12 others (2016). Saving freshwater from salts. *Science*. https://doi.org/10.1126/science.aad3488

32. **Paul K Mensah** (2015). Ecotoxicology of Glyphosate and Glyphosate-Based Herbicides. *Toxicity and hazard of agrochemicals*. https://books.google.com/books?hl=en&lr=&id=eGmQDwAAQBAJ&oi=fnd&pg=PA93&dq=info:tL-pmXERQQ0J:scholar.google.com&ots=dQdFUbVdNa&sig=5ifeJLwSrWX00QwfybrmWmeocbU

33. ON Odume, CG Palmer, FO Arimoro, **PK Mensah** (2015). Influence of selected biotopes on chironomid-based bioassessment of the Swartkops River, Eastern Cape, South Africa. *Water SA*. https://doi.org/10.4314/wsa.v41i3.06

34. **PK Mensah** (2015). Toxicity and hazard of agrochemicals. *Ecotoxicology of Glyphosate and Glyphosate-Based Herbicides-Toxicity to Wildlife and Humans*. https://scholar.google.com/scholar?cluster=7661371720911986061&hl=en&oi=scholarr

35. ON Odume, CG Palmer, FO Arimoro, **PK Mensah** (2014). Patterns of chironomid body-size distribution in an effluent-impacted river in the Eastern Cape, South Africa. *African Journal of Aquatic Science*. https://doi.org/10.2989/16085914.2014.982498

36. **Paul K. Mensah**, Caroline G. Palmer, Wilhelmine J. Muller (2013). Derivation of South African water quality guidelines for Roundup® using species sensitivity distribution. *Ecotoxicology and Environmental Safety*. https://doi.org/10.1016/j.ecoenv.2013.06.009

37. **P. K. Mensah**, W. J. Muller, C. G. Palmer (2012). Acetylcholinesterase activity in the freshwater shrimp

Caridina nilotica as a biomarker of Roundup® herbicide pollution of freshwater systems in South Africa. *Water Science & Technology*. https://doi.org/10.2166/wst.2012.206

38. **P. K. Mensah**, C. G. Palmer, W. J. Muller (2012). Lipid peroxidation in the freshwater shrimp Caridina nilotica as a biomarker of Roundup® herbicide pollution of freshwater systems in South Africa. *Water Science & Technology*. https://doi.org/10.2166/wst.2012.060
39. **PK Mensah**, GH Okuthe, M Onani (2012). Sublethal effects of carbaryl on embryonic and gonadal developments of zebrafish Danio rerio. *African Journal of Aquatic Science*. https://doi.org/10.2989/16085914.2012.697862
40. **P.K. Mensah**, W.J. Muller, C.G. Palmer (2012). Using growth measures in the freshwater shrimp Caridina nilotica as biomarkers of Roundup® pollution of South African freshwater systems. *Physics and Chemistry of the Earth Parts A/B/C*. https://doi.org/10.1016/j.pce.2012.08.003
41. **P.K. Mensah**, W.J. Muller, C.G. Palmer (2011). Acute toxicity of Roundup® herbicide to three life stages of the freshwater shrimp Caridina nilotica (Decapoda: Atyidae). *Physics and Chemistry of the Earth Parts A/B/C*. https://doi.org/10.1016/j.pce.2011.07.071

Book chapters 2

1. J Aggrey-Fynn, **PK Mensah** (2021). Heavy metals bioaccumulation in gills and liver of chrysichthys nigrodigitatus from AnkobraEstuary in Ghana. *36th Annual Conference of Fisheries Society of Nigeria*. https://www.researchgate.net/profile/Mary-Adebote/publication/383822593_Heavy_Metals_Bioaccumulation_in_Gills_and_Liver_of_Chrysichthys_nigrodigitatus_from_Ankobra_River_Estuary/links/685210e411be4823fbdf2029/Heavy-Metals-Bioaccumulation-in-Gills-and-Liver-of-Chrysichthys-nigrodigitatus-from-Ankobra-River-Estuary.pdf#page=108
2. Thokozani Kanyerere, Sylvia Tramberend, Audrey D. Levine, Portia Mokoena, **Paul Mensah**, Wisemen Chingombe, Jacqueline Goldin, Sumbul Fatima, Mayank Prakash (2018). Water Futures and Solutions: Options to Enhance Water Security in Sub-Saharan Africa. https://doi.org/10.1007/978-3-319-71486-8_6

Conference papers 1

1. **P Mensah** (2020). Blood management in Volta Regional Hospital (VRH), Ho, Ghana: a quality improvement project. *BRITISH JOURNAL OF HAEMATOLOGY*. https://scholar.google.com/scholar?cluster=6412586359174930678&hl=en&oi=scholarr

Reports 2

1. **Paul Kojo Mensah** (2022). Microplastics as emerging contaminants: Method development, ecotoxicity testing and biomonitoring in South African water resources. *WRC Report*. https://www.wrc.org.za/wp-content/uploads/mdocs/29191.pdf
2. **Paul K Mensah** (2016). Generation of New Ecotoxicity Data for Salts Using Indigenous South African Freshwater Macroinvertebrate: Updating the National Salts Toxicity Database: Report to the Water …. *Water Research Commission*. https://www.wrc.org.za/wp-content/uploads/mdocs/KV%20353-15.pdf

Theses 1

1. **Paul Kojo Mensah** (2012). Environmental water quality management of Glyphosate-based herbicides in South Africa. *Rhodes University*. https://www.academia.edu/download/79164359/SOURCEPDF.pdf