Paul K Essandoh

Senior Lecturer · Environmental Science
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RESEARCH

Interests	Forest Ecology · Noise Monitoring · Ecosystem Management · Soil Quality · Energy Studies
Areas	Biomedical Engineering · Plant Science · Mechanical Engineering · Pollution · Renewable Energy, Sustainability and the Environment · Building and Construction

RESEARCH SUMMARY

30	342	9	8	0.84	10%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 30 publications listed below, 2010–2025. Field-weighted impact is the mean over the 21 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 21 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2020–present
Environmental Science, University of Cape Coast School of Biological Sciences, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

Senior Lecturer 2020–present
Environmental Science, University of Cape Coast School of Biological Sciences, Cape Coast, Ghana

Senior lecturer/PhD 2020–present
Environmental Science, University of Cape Coast School of Biological Sciences, Cape Coast, Ghana

PUBLICATIONS

Journal articles 29

1. Lily Ama Appiagyei, **Paul Kwame Essandoh Essandoh**, Felicia Takyi Takyi (2025). Microbial contamination in some selected locally produced canned foods in Cape Coast, Ghana: Escherichia coli and Salmonella spp. *Archives of Ecotoxicology*. https://doi.org/10.36547/ae.2025.7.1.15-20
2. Andoh Kwaku Amponsah, Ernest Amankwa Afrifa, **Paul Kwame Essandoh**, Christian Ebere Enyoh (2024). Evidence of microplastics accumulation in the gills and gastrointestinal tract of fishes from an estuarine system in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e25608
3. Gertrude Lucky Aku Dali, Sethiler Arthur, **Paul Kwame Essandoh** (2024). Floristic Inventory and Diversity Assessment at Two Locations along the Shores of Cape Coast, Ghana. *Scientifica*. https://doi.org/10.1155/2024/5195390
4. Andoh Kwaku Amponsah, Ernest Kofi Amankwa Afrifa, **Paul Kwame Essandoh** (2024). Plastic in the food chain: Investigating microplastic consumption by the blue-swimming crab (de Rochebrune, 1883) and shrimp (Pérez-Farfante, 1967) from an estuarine system in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02261

5. **Paul Kwame Essandoh** (2023). Assessment of the Use and Application of Pesticides by Cocoa Farmers in Ghana. *Environment and Ecology Research*. https://doi.org/10.13189/eer.2023.110503

6. **Paul Kwame Essandoh** (2023). Influence of Climate Change on Obligatory Interactions in the Ecosystem: Predicting the Future. *Journal of environment and earth science*. https://doi.org/10.7176/jees/13-5-04

7. **Paul Kwame Essandoh**, Gertrude Lucky Aku Dali, Isaac Mbir Bryant (2023). Medicinal plant use and integration of traditional healers into health care system: A case study at Ankasa Forest Reserve and catchment communities in Ghana. *Ethnobotany Research and Applications*. https://doi.org/10.32859/era.26.15.1-24

8. Mohammed Takase, Isaac Mbir Bryant, **Paul Kwame Essandoh**, Afrifa Ernest Kofi Amankwa (2022). A comparative study on performance of KOH and 32%KOH/ZrO 2-7 catalysts for biodiesel via transesterification of waste Adansonia digitata oil. *Green Technologies and Sustainability*. https://doi.org/10.1016/j.grets.2022.100004

9. Isaac Mbir Bryant, **Paul Kwame Essandoh** (2022). Archives of Ecotoxicology. *Archives of Ecotoxicology*. https://www.academia.edu/download/104352401/194.pdf

10. Isaac Mbir Bryant, Christina Fobir, **Paul Kwame Essandoh**, Paul Arkoful (2022). Assessment of Microbial Content in some Selected Cooked Foods Sold in UCC Science Market and Amamoma Community and their Negative Health Effect on Humans. *Archives of Ecotoxicology*. https://doi.org/10.36547/ae.2022.4.1.8-16

11. **Paul K. Essandoh**, Isaac Mbir Bryant, Mohammed Takase (2022). Natural plant revegetation on three reclaimed gold mined sites in South Western Ghana. *Green Technologies and Sustainability*. https://doi.org/10.1016/j.grets.2022.100003

12. Mohammed Takase, **Paul Kwame Essandoh**, Richard Kwadzo Asare, Kizzie-Hayford Nazir (2022). The Value Chain of Moringa oleifera Plant and the Process of Producing Its Biodiesel in Ghana. *The Scientific World JOURNAL*. https://doi.org/10.1155/2022/1827514

13. Mohammed Takase, Rogers Kipkoech, **Paul Kwame Essandoh** (2021). A comprehensive review of energy scenario and sustainable energy in Kenya. *Fuel Communications*. https://doi.org/10.1016/j.jfueco.2021.100015

14. Mohammed Takase, **Paul Kwame Essandoh** (2021). Fuel Communications. *Fuel*. https://www.academia.edu/download/86513198/main.pdf

15. **Paul K. Essandoh**, Mohammed Takase, Isaac Mbir Bryant (2021). Impact of Small-Scale Mining Activities on Physicochemical Properties of Soils in Dunkwa East Municipality of Ghana. *The Scientific World JOURNAL*. https://doi.org/10.1155/2021/9915117

16. Mohammed Takase, **Paul Kwame Essandoh**, Rogers Kipkoech (2021). Modified sodium molybdate as an efficient high yielding heterogeneous catalyst for biodiesel from Ghanaian indigenous Camelina sativa as a non-edible resource. *Discover Sustainability*. https://doi.org/10.1007/s43621-021-00014-1

17. Mohammed Takase, **Paul Kwame Essandoh**, Rogers Kipkoech (2021). New non-edible Allanblackia parviflora seed oil as an alternative feedstock for biodiesel production and characterization of the fuel. *Discover Sustainability*. https://doi.org/10.1007/s43621-021-00019-w

18. Mohammed Takase, Rogers Kipkoech, **Paul Kwame Essandoh**, Ernest Amankwa Afrifa, Jones Agyapong Frimpong, Heindel Kwasi Agama-Agbanu (2021). Status of biodiesel research and development in Kenya. *International Journal of Green Energy*. https://doi.org/10.1080/15435075.2021.1947823

19. Mohammed Takase, **Paul Kwame Essandoh** (2020). Two-step biodiesel production using high free fatty acid containing pig fat. *International Journal of Green Energy*. https://doi.org/10.1080/15435075.2020.1865364

20. **Paul K. Essandoh**, Edward A. Ampofo, Daniel Okae-Anti, Isaac M. Bryant (2019). Comparison of Flora of Small-Scale Mined and Unmined-Sites in Dunkwa-East Municipality, Ghana. *Environment and Natural Resources Research*. https://doi.org/10.5539/enrr.v9n3p86

21. Mohammed Takase, **Paul Kwame Essandoh** (2019). Deep row trenching of waste water treatment works sludge: modelling water flow and nutrient transport in soil profile with HYDRUS-2D. *Journal of Engineering Research and Application*. https://ir.ucc.edu.gh/server/api/core/bitstreams/

5a678505-172a-4bc5-9946-d9e0559caf7e/content

22. Frederick A. Armah, Benjamin Ason, Isaac Luginaah, **Paul K. Essandoh** (2012). Characterization of macro-benthic fauna for ecological health status of the Fosu and Benya lagoons in coastal Ghana. *Journal of Ecology and Environment*. https://doi.org/10.5141/jefb.2012.033
23. **PK Essandoh**, E. K. A. Afrifa (2012). Ecological health status of the Fosu Lagoon, Southern Ghana I: Biotic Assessment. *J Ecosyst Ecogr*. https://scholar.google.com/scholar?cluster=17865783262203958637&hl=en&oi=scholarr
24. EKA Afrifa, FA Armah, ANM Pappoe, **PK Essandoh** (2011). Assessment of the quality of revegetated soil near an active goldmine in southwestern Ghana. *Int. J. Environ. Sci*. https://ir.ucc.edu.gh/items/274312aa-6ad8-4aab-a925-c2fd7391134a
25. **Paul Kwame Essandoh**, Frederick A. Armah, Ernest K.A. Afrifa, Alexander N. M. Pappoe (2011). Determination of Ambient Noise Levels and Perception of Residents in Halls at the University of Cape Coast, Ghana. *Environment and Natural Resources Research*. https://doi.org/10.5539/enrr.v1n1p181
26. **PK Essandoh** (2011). Determination of ambient noise levels in the mai n commercial areas of cape coast, Ghana. *Res. J. Environ. Earth Sci*. https://scholar.google.com/scholar?cluster=5370009600343596789&hl=en&oi=scholarr
27. **PK Essandoh**, Frederick Ato Armah (2011). Determination of ambient noise levels in the main commercial area of Cape Coast, Ghana. *Research Journal of Environmental and Earth Sciences*. https://www.researchgate.net/profile/Paul-Essandoh/publication/267946918_Determination_of_Ambient_Noise_Levels_in_the_Main_Commercial_Area_of_Cape_Coast_Ghana/links/54feaafb0cf2eaf210b38a27/Determination-of-Ambient-Noise-Levels-in-the-Main-Commercial-Area-of-Cape-Coast-Ghana.pdf
28. FA Armah, EKA Afrifa, ANM Pappoe, **PK Essandoh** (2011). Spatial variability of trace metals in surface and groundwater within a Contaminated Mining Environment in Ghana. *Research Journal of Environmental and Earth Sciences*. https://www.airitilibrary.com/Article/Detail/20410492-201108-201507220021-201507220021-546-554
29. David O. Yawson, Frederick Ato Armah, Daniel Okae-Anti, **Paul Kwame Essandoh**, Ernest K. H. Afrifa (2010). Enhancing Spatial Data Accessibility in Ghana: Prioritization of Influencing Factors Using AHP. *International Journal of Spatial Data Infrastructures Research*, ,.

Theses 1

1. **PAUL K ESSANDOH** (2025). Evaluasi Dampak Mikroplastik Terhadap Respon Fisiologis dan Struktur Histologis pada Benih Ikan Nila (Oreochromis niloticus) di Lingkungan Perairan. *Universitas Hasanuddin Makassar*. https://repository.unhas.ac.id/id/eprint/44898/