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RESEARCH

Interests	Environment · Health · Vectors · Water Resources Management · Quality Assurance
Areas	Global and Planetary Change · Sociology and Political Science · Ecology · Earth-Surface Processes · Management, Monitoring, Policy and Law · Atmospheric Science

RESEARCH SUMMARY

41	1,010	18	25	2.96	45%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 41 publications listed below, 2010–2026. Field-weighted impact is the mean over the 38 works scored for it; 1.00 is the world average for works of the same field, type and year. 17 of the 38 papers scored for it are among the world's most cited tenth for their field, type and year.

EDUCATION AND QUALIFICATIONS

Ph.D in Environmental Science 2011–2015
Environmental Science, University of Ghana, Legon, Accra, Ghana

PUBLICATIONS

Journal articles 38

1. Memuna Mawusi Mattah, Justice Mensah, Francis Adarkwah, **Precious Agbeko Dzorgbe Mattah** (2026). Towards the Achievement of Disaster Risk Reduction and Climate Change Adaptation in the Eastern Coast of Ghana: The Role of Stakeholders. *SAGE Open*. https://doi.org/10.1177/21582440251414343
2. Prince Prah, **Precious Agbeko Dzorgbe Mattah**, Margaret Fafa Awushie Akwetey, Sika Abrokwah, Denis Worlanyo Aheto (2026). XXXXXXSAssessment of the factors that influence the choice of wetland-based livelihoods in the keta lagoon complex Ramsar site (KLCRS) of South-eastern Ghana. *Discover Sustainability*. https://doi.org/10.1007/s43621-026-03049-4
3. Memuna M. Mattah, **Precious A.D. Mattah**, Adelina M. Mensah, Francis Adarkwah, Justice Mensah, Kwasi Appeaning Addo (2024). Community perceptions, knowledge, and coping mechanisms concerning perennial climate change-related disasters along the Volta estuary of Ghana, West Africa. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02333
4. El hadj Bara Dème, Grégoire Touron-Gardic, Kieran Deane, Anthony Adeea Mba, Senyo Adza, Lawrence Tetteh-Ocloo, Richard Gyimah, **Precious Agbeko D. Mattah**, Pierre Failler, Paul Silaï Tendeng (2024). Défis de l'intégration communautaire dans la conservation de la biodiversité en Afrique de l'Ouest : cas du site Ramsar du complexe lagunaire de Keta Lagoon, Ghana. *VertigO*. https://doi.org/10.4000/12sit
5. Ebenezer Otoo, Richard Asumadu, Gideon Kwabena Boadi, Jisheng Zhang, Solomon Boadu, **Precious Mattah** (2024). Numerical investigation of scour around monopile foundation of offshore wind farm. *Discover Applied Sciences*. https://doi.org/10.1007/s42452-024-05672-0
6. **Precious Agbeko Dzorgbe Mattah**, Margaret Fafa Awushie Akwetey, Sika Abrokwah, Prince Prah, Domarine Kwaboah Tuffour, Denis Worlanyo Aheto, Suneetha Subramanian (2024). Perspectives on Drivers of Biodiversity and Environmental Changes in the Keta Lagoon Ramsar Site of Ghana. *Sustainability*. https://doi.org/10.3390/su16020666

7. Justice Mensah, John Oti Amoah, Edinam Bernice Amenumey, **Precious A.D. Mattah**, Memuna Mawusi Mattah (2024). The closed fishing season policy in Ghana: Lessons from the coastal fisherfolk. *Marine Policy*. https://doi.org/10.1016/j.marpol.2024.106472

8. Samuel Kofi Tulashie, Clement Akonnor Osei, Rebecca Kwofie, Mavis Olayemi Olorunyomi, Hope Attagba, Oscar Opoku Boateng, Richard Adade, **Precious Mattah** (2024). The potential production of biofuel from Sargassum sp.: turning the waste catastrophe into an opportunity. *Biofuels*. https://doi.org/10.1080/17597269.2024.2306008

9. Olujumoke Adesola Ogunrayi, **Precious Agbeko Dzorgbe Mattah**, Regina Folorunsho, Emmanuel Jolaiya, Omoniyi John Ikuomola (2023). A Spatio-Temporal Analysis of Shoreline Changes in the Ilaje Coastal Area of Ondo State, Nigeria. *Journal of Marine Science and Engineering*. https://doi.org/10.3390/jmse12010018

10. Memuna Mawusi Mattah, **Precious Agbeko D. Mattah**, Adelina Mensah, Daystar Babanawo, Emmanuel Brempong, Justice Mensah, K. Appeaning Addo (2023). Assessment of social factors that promote the vulnerability of communities to coastal hazards in the Volta estuary in Ghana. *International Journal of Disaster Risk Reduction*. https://doi.org/10.1016/j.ijdrr.2023.103896

11. Emmanuel K. Brempong, Rafael Almar, Donatus Bapentire Angnuureng, **Precious Agbeko Dzorgbe Mattah**, Philip-Neri Jayson-Quashigah, Kwesi Twum Antwi-Agyakwa, Blessing Charuka (2023). Coastal Flooding Caused by Extreme Coastal Water Level at the World Heritage Historic Keta City (Ghana, West Africa). *Journal of Marine Science and Engineering*. https://doi.org/10.3390/jmse11061144

12. Bapentire Donatus Angnuureng, Richard Adade, Ernest Obeng Chuku, Selorm Dzantor, Emmanuel Kwadzo Brempong, **Precious Agbeko Dzorgbe Mattah** (2023). Effects of coastal protection structures in controlling erosion and livelihoods. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e20633

13. E. K. Brempong, R. Almar, D. B. Angnuureng, **P. A. D. Mattah**, S. Y. Avornyo, P. N. Jayson-Quashigah, K. Appeaning Addo, P. Minderhoud, P. Teatini (2023). Future flooding of the Volta Delta caused by sea level rise and land subsidence. *Journal of Coastal Conservation*. https://doi.org/10.1007/s11852-023-00952-0

14. Rodrigue Orobiyi Edéya Pèlèbè, Issa Nahoua Ouattara, Prudencio Tachégnon Agbohessi, Eloi Yatchégnon Attakpa, **Precious Agbeko Dzorgbe Mattah**, Elizabeth Effah, Jean Fall, Denis Worlanyo Aheto, Benjamin Obukowho Emikpe, Ibrahim Imorou Toko, Elie Montchowui, Célestin Melecony Ble (2023). Growth Performance and Proximate Composition of African Catfish (Clarias gariepinus) Cultured in Cages and Pens in Northern Benin Water Reservoirs Exposed to Cotton-field Effluents. *Aquaculture Studies*. https://doi.org/10.4194/aquast1038

15. Justice Mensah, **Precious A.D. Mattah** (2023). Illegal sand mining in coastal Ghana: The drivers and the way forward. *The Extractive Industries and Society*. https://doi.org/10.1016/j.exis.2023.101224

16. Richard Asumadu, **Precious Mattah** (2023). Numerical modeling of wave penetration inside a harbor. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i2.88

17. Daystar Babanawo, **Precious Agbeko D. Mattah**, Samuel K.M. Agblorti, Denis Worlanyo Aheto (2023). Perspectives on factors that influence local communities' vulnerability to coastal floods in Ketu South Municipality of Ghana. *International Journal of Disaster Risk Reduction*. https://doi.org/10.1016/j.ijdrr.2023.103646

18. Eric Duku, **Precious Agbeko Dzorgbe Mattah**, Donatus Bapentire Angnuureng (2022). Assessment of wetland ecosystem services and human wellbeing nexus in sub-Saharan Africa: Empirical evidence from a socio-ecological landscape of Ghana. *Environmental and Sustainability Indicators*. https://doi.org/10.1016/j.indic.2022.100186

19. Justice Mensah, John Oti Amoah, **Precious A. D. Mattah**, Amos Mensah (2022). Causes and effects of weak enforcement of environmental sanitation laws in Ghana. *Journal of Human Behavior in the Social Environment*. https://doi.org/10.1080/10911359.2022.2080146

20. Daystar Babanawo, **Precious Agbeko D. Mattah**, Samuel K. M. Agblorti, Emmanuel K. Brempong, Memuna Mawusi Mattah, Denis Worlanyo Aheto (2022). Local Indicator-Based Flood Vulnerability Indices and Predictors of Relocation in the Ketu South Municipal Area of Ghana. *Sustainability*. https://doi.org/10.3390/su14095698

21. Setondé Constant Gnansounou, Kolawolé Valère Salako, Alberta Ama Sagoe, **Precious Agbeko Dzorgbe**

Mattah, Denis Worlanyo Aheto, Romain Glèlè Kakaï (2022). Mangrove Ecosystem Services, Associated Threats and Implications for Wellbeing in the Mono Transboundary Biosphere Reserve (Togo-Benin), West-Africa. *Sustainability*. https://doi.org/10.3390/su14042438

22. Justice Mensah, **Precious Agbeko D. Mattah**, John Oti Amoah, Memuna Mawusi Mattah (2022). Public compliance with environmental sanitation regulations in Ghana. *Open Health*. https://doi.org/10.1515/openhe-2022-0001

23. D.B. Angnuureng, K.E. Brempong, P.N. Jayson-Quashigah, O.A. Dada, S.G.I. Akuoko, J. Frimpomaa, **P.A. Mattah**, R. Almar (2022). Satellite, drone and video camera multi-platform monitoring of coastal erosion at an engineered pocket beach: A showcase for coastal management at Elmina Bay, Ghana (West Africa). *Regional Studies in Marine Science*. https://doi.org/10.1016/j.rsma.2022.102437

24. Setondé Constant Gnansounou, Alberta Ama Sagoe, **Precious Agbeko Dzorgbe Mattah**, Kolawolé Valère Salako, Denis Worlanyo Aheto, Romain Glèlè Kakaï (2022). The co-management approach has positive impacts on mangrove conservation: evidence from the mono transboundary biosphere reserve (Togo-Benin), West Africa. *Wetlands Ecology and Management*. https://doi.org/10.1007/s11273-022-09894-0

25. Eric Duku, **Precious Agbeko Dzorgbe Mattah**, Donatus Bapentire Angnuureng, Joshua Adotey (2022). Understanding the Complexities of Human Well-Being in the Context of Ecosystem Services within Coastal Ghana. *Sustainability*. https://doi.org/10.3390/su141610111

26. Eric Duku, **Precious Agbeko Dzorgbe Mattah**, Donatus Bapentire Angnuureng (2021). Assessment of Land Use/Land Cover Change and Morphometric Parameters in the Keta Lagoon Complex Ramsar Site, Ghana. *Water*. https://doi.org/10.3390/w13182537

27. **Precious Agbeko D. Mattah**, 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

28. **PAD Mattah**, G Futagbi, LK Amekudzi (2020). 2. Climate variations, urban solid waste management and possible implications for Anopheles mosquito breeding in selected cities of coastal Ghana. *West African Journal of Applied Ecology*. https://journals.ug.edu.gh/index.php/wajae/article/view/374

29. **Precious Agbeko Dzorgbe Mattah**, Godfred Futagbi, Memuna Mawusi Mattah (2018). Awareness of Environmental Change, Climate Variability, and Their Role in Prevalence of Mosquitoes among Urban Dwellers in Southern Ghana. *Journal of Environmental and Public Health*. https://doi.org/10.1155/2018/5342624

30. **Precious Agbeko D. Mattah**, Albert Justice Kwarteng, Justice Mensah (2018). Indicators of service quality and satisfaction among graduating students of a higher education institution (HEI) in Ghana. *Higher Education Evaluation and Development*. https://doi.org/10.1108/heed-10-2017-0006

31. **Precious A. Dzorgbe Mattah**, Godfred Futagbi, Leonard K. Amekudzi, Memuna M. Mattah, Dziedzorm K. de Souza, Worlasi D. Kartey-Attipoe, Langbong Bimi, Michael D. Wilson (2017). Diversity in breeding sites and distribution of Anopheles mosquitoes in selected urban areas of southern Ghana. *Parasites & Vectors*. https://doi.org/10.1186/s13071-016-1941-3

32. Godfred Futagbi, Nana Akosua Gyamfuah Koduah, Benyarku Richard Ampah, **Precious Agbeko Dzorgbe Mattah**, Maxwell Billah, James Edinam Futse, Eric Sampane-Donkor (2017). Microbial Carriage and Contamination of Mangoes by the Oriental Fruit Fly. *The Open Public Health Journal*. https://doi.org/10.2174/1874944501710010267

33. Samuel Obiri, **Precious Mattah**, Memuna Mattah, Frederick Armah, Shiloh Osae, Sam Adu-kumi, Philip Yeboah (2016). Assessing the Environmental and Socio-Economic Impacts of Artisanal Gold Mining on the Livelihoods of Communities in the Tarkwa Nsuaem Municipality in Ghana. *International Journal of Environmental Research and Public Health*. https://doi.org/10.3390/ijerph13020160

34. G Futagbi, **P Mattah**, ES Donkor (2016). Microbial quality of mangoes from selected markets in Accra, Ghana. *NY Sci J*. https://scholar.google.com/scholar?cluster=7776137984658472393&hl=en&oi=scholarr

35. Memuna M. Mattah, **Precious A. D. Mattah**, Godfred Futagbi (2015). Pesticide Application among Farmers in the Catchment of Ashaiman Irrigation Scheme of Ghana: Health Implications. *Journal of*

Environmental and Public Health. https://doi.org/10.1155/2015/547272

36. **P Mattah** (2013). Health and demographic surveillance system profile: the Dodowa HDSS. *Int J Epidemiol*. https://scholar.google.com/scholar?cluster=10685276588238138223&hl=en&oi=scholarr

37. M. Gyapong, D. Sarpong, E. Awini, A. K. Manyeh, D. Tei, G. Odonkor, I. A. Agyepong, **P. Mattah**, P. Wontuo, M. Attaa-Pomaa, J. O. Gyapong, F. N. Binka (2013). Profile: The Dodowa HDSS. *International Journal of Epidemiology*. https://doi.org/10.1093/ije/dyt197

38. E. Awini, **P. Mattah**, O. Sankoh, M. Gyapong (2010). Spatial variations in childhood mortalities at the Dodowa Health and Demographic Surveillance System site of the INDEPTH Network in Ghana. *Tropical Medicine & International Health*. https://doi.org/10.1111/j.1365-3156.2010.02492.x

Book chapters 3

1. Eline Nyiransengiyumva, Richard Adade, Noble Kwame Asare, **Precious Agbeko Dzorgbe Mattah** (2026). Modeling Potential Flood Occurrence under Climate-Related Variables in Kilifi Coastal County, Kenya. *Palgrave Studies in Maritime Economics*. https://doi.org/10.1007/978-3-032-25364-4_17

2. Seedy Barrow, Eric Atsu Avorkpo, Eric Amoo Bondzie, **Precious Agbeko Dzorgbe Mattah** (2026). Towards Sustainable Blue Growth: Effects of Sand Mining on Coastal Communities of Kombo South, The Gambia. *Palgrave Studies in Maritime Economics*. https://doi.org/10.1007/978-3-032-25364-4_16

3. Olujumoke Adesola Ogunrayi, **Precious Agbeko Dzorgbe Mattah**, Regina Folorunsho, Olumide Arike Olaniyan (2025). Assessment of Flood Risk and Vulnerability in Ilaje, Ondo State, Nigeria: Implications for Coastal and Marine Ecosystem Protection. *Handbook of Sustainable Blue Economy*. https://doi.org/10.1007/978-3-031-32671-4_77-1