Benjamin Betey Campion

Associate Professor · Department of Fisheries and Watershed Management
Kwame Nkrumah University of Science and Technology

ORCID 0000-0002-7030-9930 · Homepage staff.knust.edu.gh/profile.php?sid=6174469 · personal webpage frnr.knust.edu.gh/directory/BBCampion · Google Scholar scholar.google.com/citations?user=U_WmzlYAAAAJ&hl=en · Profile knust.peerford.com/staff/470464a5-6aba-424a-af7e-e92b111796f3

RESEARCH

Interests: Vegetation ecology · urban ecology · natural resources management · Ecology · conflict management · wetlands · fisheries

Areas: Global and Planetary Change · Ecology · General Agricultural and Biological Sciences · Pollution · Aquatic Science · Health, Toxicology and Mutagenesis

RESEARCH SUMMARY

43	956	17	21	3.90	41%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 43 publications listed below, 2011–2026. Field-weighted impact is the mean over the 32 works scored for it; 1.00 is the world average for works of the same field, type and year. 13 of the 32 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Associate Professor 2020–present
Fisheries and Watershed Management, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2009–2012
Geography, Universität Bremen, Bremen, Germany

MSc Sustainable Resource Management 2002–2005
WZM, Technische Universität München, Munchen, Germany

MSc ISATEC 2000–2002
ZMT, Universität Bremen, Bremen, Germany

BSc Botany (Honours) 1994–1998
Botany, University of Cape Coast, Cape Coast, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Association for the Sciences of Limnology and Oceanography
Waco, United States

PUBLICATIONS

Journal articles 38

1. Benjamin Apraku Gyampoh, Patience Enyonam Akoto, Wonder Sekey, Emmanuel Xorla Xatse, Hubert Klenam Woclarchie, **Benjamin Betey Campion** (2026). Dissolved oxygen and pH as hydrological connectivity indicators for mangrove restoration site assessment: Evidence from a tidally attenuated Ramsar lagoon in Ghana. *Ecohydrology & Hydrobiology*. https://doi.org/10.1016/j.ecohyd.2026.100817
2. B.F. Nero, E.D. Kuusaana, A. Ahmed, **B.B. Campion** (2024). Carbon storage and tree species diversity of urban parks in Kumasi, Ghana. *City and Environment Interactions*. https://doi.org/10.1016/j.cacint.2024.100156
3. Cynthia Kutir, Samuel K. M. Agblorti, **Benjamin B. Campion** (2024). The contribution of estuarine ecosystems to fishers' migration patterns and livelihood adaptation along Ghana's coast. *Ecosystems and People*. https://doi.org/10.1080/26395916.2024.2344848
4. **Benjamin Betey Campion**, Bertrand Festus Nero, Esinam Attipoe (2024). We have the laws but how is our environment? The disconnect between Ghana's environmental commitments and institutional capacity to manage urban floods and wetlands. *Wetlands Ecology and Management*. https://doi.org/10.1007/s11273-024-09986-z
5. R Edziyie, **BB Campion** (2023). FEMINIZATION OF AGRICULTURE AND COPING WITH CLIMATE VARIABILITY IN THE UPPER EAST REGION OF GHANA. *UDS International Journal of Development*. https://www.ajol.info/index.php/udsijd/article/view/260364
6. Bertrand F. Nero, Bernard A. Nyanzu, **Benjamin B. Campion** (2023). Mine Wastewater Treatment Using Cassia fistula Plant Parts as Bio-coagulants. *Water Conservation Science and Engineering*. https://doi.org/10.1007/s41101-023-00178-z
7. **CB Benjamin** (2023). Temporal Distribution of Organochlorine Pesticides in Tissues of Two Fish Species of Tropical Reservoirs: A Case Study of Bui, Ghana. *ASRIC JOURNAL ON AGRICULTURAL SCIENCES*. https://www.researchgate.net/profile/Clement-Onoja/publication/380163400_Enhancing_the_Flavor_and_Shelf_Life_Of_Smoked_African_Catfish_Clarias_gariepinus_using_various_spices/links/662ea00808aa54017acadbd2/Enhancing-the-Flavor-and-Shelf-Life-Of-Smoked-African-Catfish-Clarias-gariepinus-using-various-spices.pdf#page=41
8. Tia Iddrisu Fuseini, Ahunoabobirim Agya Bosompem, Esi. Edziyie Regina, **Betey Campion Benjamin**, Nsoh Akongyuure Daniel, Adjei-Boateng Daniel (2022). Assessing the impact of a budget cage technology on Nile Tilapia (Oreochromis niloticus) production in the Bontanga, Golinga and Libga reservoirs in Northern Ghana, Africa. *International Journal of Fisheries and Aquaculture*. https://doi.org/10.5897/ijfa2021.0827
9. Cynthia Kutir, Samuel K.M. Agblorti, **Benjamin B. Campion** (2022). Migration and Estuarine Land Use/Land Cover (LULC) Change along Ghana's Coast. *Regional Studies in Marine Science*. https://doi.org/10.1016/j.rsma.2022.102488
10. Ametus Kuuwill, Jude Ndzifon Kimengsi, **Benjamin Betey Campion** (2022). Pandemic-induced shocks and shifts in forest-based livelihood strategies: learning from COVID-19 in the Bia West District of Ghana. *Environmental Research Letters*. https://doi.org/10.1088/1748-9326/ac70ed
11. Pamela Parnarkie Pardie, **Benjamin Betey Campion** (2022). The how in fishing and fish processing: traditional artisanal fishing and fish processing practices among the Ga people of Ghana. *MAST. Maritime studies/Maritime studies*. https://doi.org/10.1007/s40152-022-00286-x
12. E.D. Kuusaana, A. Ahmed, **B.B. Campion**, A. Dongzagla (2021). Characterisation and typology of urban wetlands in Ghana: Implications for the governance of urban commons in secondary cities in Africa. *Urban Governance*. https://doi.org/10.1016/j.ugj.2021.09.002
13. Priscilla Animah Obirikorang, **Benjamin Betey Campion**, Regina Esi Edziyie, Collins Prah Duodu, Daniel Adjei-Boateng (2020). Effects of oilseed meals on pellet characteristics, faecal matter production, postprandial ammonia and phosphorus excretion rates in Nile tilapia, Oreochromis niloticus. *Journal of Applied Animal Research*. https://doi.org/10.1080/09712119.2020.1840382

14. Edward E. Onumah, Elizabeth A. Quaye, Anderson K. Ahwireng, **Benjamin B. Campion** (2020). Fish Consumption Behaviour and Perception of Food Security of Low-Income Households in Urban Areas of Ghana. *Sustainability*. https://doi.org/10.3390/su12197932

15. SB Jidauna, R Edziyie, **BB Campion** (2020). Spatio-temporal distribution of organochlorine pesticide residues in water and sediments of tropical reservoirs: a case study of Bui Reservoir, Ghana. *African Journal of Aquatic Science*. https://doi.org/10.2989/16085914.2019.1707430

16. Cephas Kwesi Zuh, Seth Mensah Abobi, **Benjamin Betey Campion** (2019). Comparative assessment of age, growth and food habit of the black-chinned tilapia, Sarotherodon melanotheron (Rüppell, 1852), from a closed and open lagoon, Ghana. *Fisheries and aquatic sciences*. https://doi.org/10.1186/s41240-019-0146-z

17. Ellis A. Adams, Elias D. Kuusaana, Abubakari Ahmed, **Benjamin B. Campion** (2019). Land dispossessions and water appropriations: Political ecology of land and water grabs in Ghana. *Land Use Policy*. https://doi.org/10.1016/j.landusepol.2019.104068

18. Emmanuel T. D. Mensah, Hederick R. Dankwa, Torben L. Lauridsen, Dennis Trolle, Ruby Asmah, **Benjamin B. Campion**, Regina Edziyie, Villy Christensen (2019). Mass balance model of Lake Volta fisheries: The use of Ecopath model. *Lakes & Reservoirs Science Policy and Management for Sustainable Use*. https://doi.org/10.1111/lre.12276

19. Abdul-Rahaman Issahaku, **Benjamin Betey Campion**, Regina Edziyie (2018). Climate variability, water levels, and fish catch in the Upper East Region of Ghana. *Environmental Quality Management*. https://doi.org/10.1002/tqem.21544

20. David Attim Abass, Kwasi Adu Obirikorang, **Benjamin Betey Campion**, Regina Esi Edziyie, Peter Vilhelm Skov (2018). Dietary supplementation of yeast (Saccharomyces cerevisiae) improves growth, stress tolerance, and disease resistance in juvenile Nile tilapia (Oreochromis niloticus). *Aquaculture International*. https://doi.org/10.1007/s10499-018-0255-1

21. Emmanuel T. D. Mensah, Hederick R. Dankwa, Lauridsen L. Torben, Ruby Asmah, **Benjamin B. Campion**, Regina Edziyie (2018). Effects of seasonal and environmental changes on aquaculture production in tropical Lake Volta, Ghana. *Aquaculture International*. https://doi.org/10.1007/s10499-018-0294-7

22. Emmanuel T-D. Mensah, Hederick R. Dankwa, Torben L. Lauridsen, Ruby Asmah, **Benjamin B. Campion**, Regina Edziyie (2018). Seasonal changes in fish catch and environmental variables in a large Tropical Lake, Volta, Ghana. *African Journal of Ecology*. https://doi.org/10.1111/aje.12537

23. Abubakari Ahmed, **Benjamin Betey Campion**, Alexandros Gasparatos (2018). Towards a classification of the drivers of jatropha collapse in Ghana elicited from the perceptions of multiple stakeholders. *Sustainability Science*. https://doi.org/10.1007/s11625-018-0568-z

24. Abubakari Ahmed, **Benjamin Betey Campion**, Alexandros Gasparatos (2016). Biofuel development in Ghana: policies of expansion and drivers of failure in the jatropha sector. *Renewable and Sustainable Energy Reviews*. https://doi.org/10.1016/j.rser.2016.11.216

25. Abdul-Rahaman Issahaku, **Benjamin Betey Campion**, Regina Edziyie (2016). Rainfall and temperature changes and variability in the Upper East Region of Ghana. *Earth and Space Science*. https://doi.org/10.1002/2016ea000161

26. **Benjamin Campion**, Emmanuel Acheampong (2014). The Chieftaincy Institution in Ghana: Causers and Arbitrators of Conflicts in Industrial Jatropha Investments. *Sustainability*. https://doi.org/10.3390/su6096332

27. Emmanuel Acheampong, **Benjamin Campion** (2014). The Effects of Biofuel Feedstock Production on Farmers' Livelihoods in Ghana: The Case of Jatropha curcas. *Sustainability*. https://doi.org/10.3390/su6074587

28. **Benjamin Betey Campion** (2013). Catch per unit effort (CPUE) and water level variations in the lower reaches of the White Volta River (Yapei), Ghana. *African Journal of Agricultural Research*. https://www.academia.edu/download/55982544/Abobi_et_al_CPUE_and_Water_level_Variation.pdf

29. **Benjamin Betey Campion** (2013). Environmental impact assessment and sustainable development in

Africa: A critical review. *Environment and Natural Resources Research*. https://www.researchgate.net/profile/Benjamin-Campion/publication/235859306_Environmental_impact_assessment_and_sustainable_development_A_critical_review/links/0046351dfd13a8d638000000/Environmental-impact-assessment-and-sustainable-development-A-critical-review.pdf

30. **Benjamin Betey Campion**, Godfred Essel (2013). Environmental impact assessment and sustainable development: A critical review. *Environment and Natural Resources Research*. https://doi.org/10.5539/enrr.v3n2p37
31. **BB Campion** (2013). Rainfall variability, floods and adaptations of the urban poor to flooding in Kumasi, Ghana. *Natural Hazards*. https://doi.org/10.1007/s11069-012-0452-6
32. Acheampong, Emmanuel, **Campion, Benjamin Betey** (2013). Socio-economic impact of biofuel feedstock production on local livelihoods in Ghana. *Ghana Journal of Geography*. https://doi.org/10.13140/2.1.3133.5048
33. **BB Campion**, G Owusu-Boateng (2013). The political ecology of wetlands in Kumasi, Ghana. *International Journal of Environment and Bioenergy*. https://www.researchgate.net/profile/Benjamin-Campion/publication/258152382_The_Political_Ecology_of_Wetlands_in_Kumasi_Ghana/links/00b4952aef081291e4000000/The-Political-Ecology-of-Wetlands-in-Kumasi-Ghana.pdf
34. E Acheampong, **BB Campion** (2012). Assessing the socio-economic implications of industrial biofuel plantations: Repercussions of Jatropha curcas on rural land use alienation and conflict escalation in Ghana. *Unpublished work*. https://scholar.google.com/scholar?cluster=15653938681648420527&hl=en&oi=scholarr
35. **Benjamin Betey Campion**, Simeon Nii Laryea Odametey (2012). Can Wetland Vegetation be Used to Describe Anthropogenic Effects and Pollution Patterns? The Case of Dakodwom and Kaase Wetlands in the Kumasi Metropolis, Ghana. *Journal of Environment and Ecology*. https://doi.org/10.5296/jee.v3i1.1812
36. **Benjamin Betey Campion**, Godfredb Essel, Emmanuel Acheampong (2012). Natural resources conflicts and the biofuel industry: implications and proposals for Ghana. *Ghana Journal of Geography*.
37. C Mahama, **B Campion** (2011). Housing tenure, residential moves and children's educational performance in Accra, Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v31i1.64887
38. **BB Campion** (2011). Spatial patterns and determinants of wetland vegetation distribution in the Kumasi Metropolis, Ghana. *Wetlands ecology and management*. https://doi.org/10.1007/s11273-011-9226-2

Book chapters 3

1. **BB Campion** (2025). Colonial socioeconomic segregation and intergenerational transition to sustainability of African Cities. *Pathways to Sustainability by Killeen, T., Wuebbles, D., & Lane, J. (editors)*. https://books.google.com/books?hl=en&lr=&id=b8RgEQAAQBAJ&oi=fnd&pg=RA3-PT55&dq=info:kp-lwRwf2QQJ:scholar.google.com&ots=15cl7hoN9z&sig=L5Oy2MRcLVJb0Hj0SVr_0GXt5iQ
2. **BB Campion** (2023). Beyond Knee-jerk Reactions: Ghana's efforts at providing social development, employment and decent work in its fisheries sector must focus on improving education, health and …. *SAMUDRA Report*. http://icsfarchives.net/20010/
3. **BB Campion** (2023). The promise of dried and fermented small fish processing to enhance food security and nutrition. *Small fish for food security and nutrition. FAO Fisheries and Aquaculture Technical Paper*. https://scholar.google.com/scholar?cluster=10859160625648507663&hl=en&oi=scholarr

Conference papers 2

1. Bertrand F. Nero, **Benjamin B. Campion**, Nelson Agbo, Daniel Callo-Concha, Manfred Denich (2017). Tree and Trait Diversity, Species Coexistence, and Diversity-functional Relations of Green Spaces in Kumasi, Ghana. *Procedia Engineering*. https://doi.org/10.1016/j.proeng.2017.07.164
2. Nelson Winston Agbo, **Benjamin Betey Campion**, Daniel Adjei-Boateng, Raymond Djangma, Peter Vilhelm Skov, Morten Birkved, Arne Wangel (2015). Economic and environmental benefits from integrating Aquaculture and Agriculture (IAA) in Ghana - presentation of system setup. *DTU Sustain Conference 2015*.