Kwabena Biritwum Nyarko

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RESEARCH

Interests: Water · Sanitation and Hygiene · Engineering Economics · WASH · Sanitation

Areas: Nutrition and Dietetics · Waste Management and Disposal · Urban Studies · Ocean Engineering · Water Science and Technology · Safety Research

RESEARCH SUMMARY

93	1,733	23	45	1.60	16%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 93 publications listed below, 1998–2026. Field-weighted impact is the mean over the 50 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 50 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Professor 2020–present
Civil Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

MSC, PhD
UNESCO-IHE Institute for Water Education, Delft, Netherlands

PUBLICATIONS

Journal articles 81

1. Akua Adwubi Owusu, Eugene Appiah-Effah, Kofi Akodwaa-Boadi, **Kwabena Biritwum Nyarko**, Patrick Boakye (2026). Bridging the Gap Between Urban Waste Management and Valorization Through Ratio Modelling and Windrow Co-composting of Municipal Organic Waste, Chicken Litter and Palm Kernel Fiber. *Compost Science & Utilization*. https://doi.org/10.1080/1065657x.2026.2669099
2. **Kwabena B Nyarko** (2026). Dismantling the United States Agency for International Development Costs Lives and Threatens Global Stability. *American journal of public health*. https://doi.org/10.2105/ajph.2026.308652
3. **Kwabena B Nyarko**, E Appiah-Effah, YC Kunkuaboor (2026). Infrastructure, service access, and household choice in Faecal sludge emptying: A hierarchical analysis of mechanical and manual emptying practices in greater Kumasi, Ghana. *Waste Management Bulletin*. https://www.sciencedirect.com/science/article/pii/S2949750726000994
4. Bismark Dwumfour-Asare, Eugene Appiah-Effah, James Ben Tidwell, **Kwabena Biritwum Nyarko** (2026). Understanding Nurturing Care Group Approach in Addressing Menstrual Challenges in Selected Ghanaian Communities. *SAGE Open*. https://doi.org/10.1177/21582440261418218
5. Godwin Armstrong Duku, Nana Kobea Bonso, Eugene Appiah-Effah, Yenube Clement Kunkuaboor, Emmanuel Nouwati, Barbara Gyapong-Korsah, Ebenezer Acquah, **Kwabena Biritwum Nyarko** (2025). Achieving universal sanitation in Ghana: An analysis of key drivers of toilet ownership among property

owners in Urban areas. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0307729

6. Bismark Dwumfour-Asare, Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, James Ben Tidwell (2025). Nurturing care group approach for improving animal faeces management in Ghana. *Scientific Reports*. https://doi.org/10.1038/s41598-025-16961-y
7. Eugene Appiah-Effah, Kingsley Boakye, Tarif Salihu, Godwin Armstrong Duku, Justice Ofosu-Darko Fenteng, George Boateng, Francis Appiah, **Kwabena Biritwum Nyarko** (2024). Determinants of Open Defecation Among Rural Women in Ghana: Analysis of Demographic and Health Surveys. *Environmental Health Insights*. https://doi.org/10.1177/11786302241226774
8. Godwin Armstrong Duku, Eugene Appiah-Effah, Charles Gyamfi, **Kwabena Biritwum Nyarko** (2024). Ghana's water safety journey: A review of efforts toward a risked-based water quality management. *Journal of Water and Health*. https://doi.org/10.2166/wh.2024.371
9. Ryan Cronk, Clarissa Brocklehurst, Barbara Evans, Laura Gomez Rodriguez, Daniele Lantagne, Cameron Mcbroom-Fitterer, Eric Momanyi, **Kwabena Nyarko**, Cecilia Scharp (2024). Missing in action: The UN Water Action Agenda needs an overhauled commitment-setting process. *PLOS Water*. https://doi.org/10.1371/journal.pwat.0000251
10. Eugene Appiah-Effah, Godwin Armstrong Duku, Kingsley Boakye, Charles Oduro, **Kwabena Biritwum Nyarko** (2024). Navigating Taxpayers Attitude: Exploring Support for Urban Sanitation Surcharge in Kumasi. *Environmental Health Insights*. https://doi.org/10.1177/11786302241247797
11. Ho Hei Cheung, Zaida Adriano, Bismark Dwumfour-Asare, **Kwabena B Nyarko**, Pippa Scott, Rassul Nala, Joe Brown, Oliver Cumming, Ian Ross (2024). Validity of a visual analogue scale to measure and value the perceived level of sanitation: evidence from Ghana and Mozambique. *Health Policy and Planning*. https://doi.org/10.1093/heapol/czae092
12. Barbara Gyapong-Korsah, Godwin Armstrong Duku, Eugene Appiah-Effah, Kingsley Boakye, Bismark Dwumfour-Asare, Helen Michelle Korkor Essandoh, **Kwabena Biritwum Nyarko** (2023). Greywater generation and reuse among residents of low-income urban settlements in the Oforikrom Municipal Assembly, Ghana. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2023.009
13. Samuel Erzuah, Wilberforce Nkrumah Aggrey, Joel Teye Tetteh, Vida Bodi, Caspar Daniel Adenutsi, Yen Adams Sokama-Neuyam, Kwame Sarkodie, William Ampomah, Godfred Ohemeng-Boahen, **Kwabena Biritwum Nyarko** (2023). Zeta potential prediction of dominant sandstone minerals via surface complexation modelling. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01721
14. AE Duncan, **KB Nyarko** (2022). An intervention to address deteriorating water quality: An application of Ajzen's theory of planned behavior. *Current Psychology*.
15. James B. Tidwell, **Kwabena B. Nyarko**, Ian Ross, Bismark Dwumfour-Asare, Pippa Scott (2022). Evaluation of user experiences for the Clean Team Ghana container-based sanitation service in Kumasi, Ghana. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2022.013
16. Hanson Mensah-Akutteh, Richard Buamah, Samuel Wiafe, **Kwabena B. Nyarko** (2022). Optimizing coagulation–flocculation processes with aluminium coagulation using response surface methods. *Applied Water Science*. https://doi.org/10.1007/s13201-022-01708-1
17. Hanson Mensah-Akutteh, Richard Buamah, Samuel Wiafe, **Kwabena B. Nyarko** (2022). Raw water quality variations and its effect on the water treatment processes. *Cogent Engineering*. https://doi.org/10.1080/23311916.2022.2122152
18. Tyhra C. Kumasi, **Kwabena B. Nyarko**, Philip Antwi-Agyei (2022). Universal water service delivery: Insights on what it takes from Ghana. *World Water Policy*. https://doi.org/10.1002/wwp2.12072
19. Eugene Appiah-Effah, Emmanuel Nketiah Ahenkorah, Godwin Armstrong Duku, **Kwabena Biritwum Nyarko** (2021). Domestic drinking water management: Quality assessment in Oforikrom municipality, Ghana. *Science Progress*. https://doi.org/10.1177/00368504211035997
20. Albert Ebo Duncan, Nanne de Vries, **Kwabena Biritwum Nyarko** (2020). An intervention to address deteriorating water quality: An application of Ajzen's theory of planned behavior. *Current Psychology*.

https://doi.org/10.1007/s12144-020-00698-0

21. Charles Y. Oduro, Eugene Appiah-Effah, **Kwabena B. Nyarko** (2020). Assessing policymaker and taxpayer attitudes towards public finance for urban sanitation: the case of sanitation surcharges in two Ghanaian municipalities. *International Journal of Urban Sustainable Development*. https://doi.org/10.1080/19463138.2020.1827410
22. Bismark Dwumfour-Asare, **Kwabena B. Nyarko**, Helen M.K. Essandoh, Esi Awuah (2020). Domestic greywater flows and pollutant loads: A neighbourhood study within a university campus in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00489
23. Godwin Armstrong Duku, Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, Bismark Dwumfour-Asare (2020). Early live-prototype testing of a low-cost latrine technology for rural and peri-urban communities: The case of a modified pour-flush latrine. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00338
24. J. Mantey, **K.B. Nyarko**, F. Owusu-Nimo, K.A. Awua, C.K. Bempah, R.K. Amankwah, W.E. Akatu, E. Appiah-Effah (2020). Influence of illegal artisanal small-scale gold mining operations (galamsey) on oil and grease (O/G) concentrations in three hotspot assemblies of Western Region, Ghana. *Environmental Pollution*. https://doi.org/10.1016/j.envpol.2020.114251
25. J. Mantey, **K.B. Nyarko**, F. Owusu-Nimo, K.A. Awua, C.K. Bempah, R.K. Amankwah, W.E. Akatu, E. Appiah-Effah (2020). Mercury contamination of soil and water media from different illegal artisanal small-scale gold mining operations (galamsey). *Heliyon*. https://doi.org/10.1016/j.heliyon.2020.e04312
26. Eugene Appiah–Effah, Godwin Armstrong Duku, Bismark Dwumfour–Asare, Isaac Manu, **Kwabena Biritwum Nyarko** (2020). Toilet chemical additives and their effect on faecal sludge characteristics. *Heliyon*. https://doi.org/10.1016/j.heliyon.2020.e04998
27. Eugene APPIAH-EFFAH, B Gyapong-Korsah, **KB Nyarko** (2019). Eugene Appiah-Effah, Godwin Armstrong Duku, Naziru Yakubu Azangbego, Ransford Kojo. *A Journal of the International Water Association*. https://scholar.google.com/scholar?cluster=20638207302963217 11&hl=en&oi=scholarr
28. Eugene Appiah-Effah, Godwin Armstrong Duku, Naziru Yakubu Azangbego, Ransford Kojo Aduafo Aggrey, Barbara Gyapong-Korsah, **Kwabena Biritwum Nyarko** (2019). Ghana's post-MDGs sanitation situation: an overview. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2019.031
29. Albert Ebo Duncan, Nanne de Vries, **Kwabena Biritwum Nyarko** (2019). The effectiveness of water resources management in Pra Basin. *Water Policy*. https://doi.org/10.2166/wp.2019.123
30. Ugyen Dorji, Ugyen M. Tenzin, Pema Dorji, Ugyen Wangchuk, Gem Tshering, Cheki Dorji, Hokyong Shon, **Kwabena Biritwum Nyarko**, Sherub Phuntsho (2019). Wastewater management in urban Bhutan: Assessing the current practices and challenges. *Process Safety and Environmental Protection*. https://doi.org/10.1016/j.psep.2019.09.023
31. Albert Ebo Duncan, Nanne de Vries, **Kwabena Biritwum Nyarko** (2018). Assessment of Heavy Metal Pollution in the Sediments of the River Pra and Its Tributaries. *Water Air & Soil Pollution*. https://doi.org/10.1007/s11270-018-3899-6
32. Albert Ebo Duncan, Nanne de Vries, **Kwabena Biritwum Nyarko** (2018). Assessment of heavy metal pollution in the main Pra River and its tributaries in the Pra Basin of Ghana. *Environmental Nanotechnology Monitoring & Management*. https://doi.org/10.1016/j.enmm.2018.06.003
33. Paa Kwesi Woode, Bismark Dwumfour-Asare, **Kwabena Biritwum Nyarko**, Eugene Appiah-Effah (2018). Cost and effectiveness of water, sanitation and hygiene promotion intervention in Ghana: the case of four communities in the Brong Ahafo region. *Heliyon*. https://doi.org/10.1016/j.heliyon.2018.e00841
34. Bismark Dwumfour-Asare, **Kwabena B. Nyarko**, Helen M. K. Essandoh, Esi Awuah, Kofi K. A. Anim, Archibald Quaye (2018). Greywater in the drains of a sewered community in Ghana. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2018.103
35. Bismark Dwumfour-Asare, **Kwabena B. Nyarko**, Esi Awuah, Helen M. K. Essandoh, Bernard A. Gyan, Hilda Ofori-Addo (2018). Indigenous plants for informal greywater treatment and reuse by some households in Ghana. *Journal of Water Reuse and Desalination*. https://doi.org/10.2166/wrd.2018.061

36. Bismark Dwumfour-Asare, **Kwabena Biritwum Nyarko**, Abu Adams (2018). Land Tenure and Water Sources for Urban Vegetable Farmers in Asante-Mampong, Ghana. *Indian Journal of Science and Technology*. https://doi.org/10.17485/ijst/2018/v11i17/107290

37. Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, Esi Awuah, Eric Ofosu Antwi (2018). Rotary drum composter as a low cost method for the removal of Ascaris lumbricoides and Trichuris Trichiura in faecal sludge compost. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2018.018

38. F. Owusu-Nimo, J. Mantey, **K.B. Nyarko**, Eugene Appiah-Effah, A. Aubynn (2018). Spatial distribution patterns of illegal artisanal small scale gold mining (Galamsey) operations in Ghana: A focus on the Western Region. *Heliyon*. https://doi.org/10.1016/j.heliyon.2018.e00534

39. **Kwabena B Nyarko**, SC Akotey, Cyril Mawuli Honu-Mensah (2018). Tympanoplasty with mastoidectomy: The initial Cape Coast experience. *World J Pharmac Med Res*. https://scholar.google.com/scholar?cluster=11343507293653848276&hl=en&oi=scholarr

40. Bismark Dwumfour-Asare, Philomina Adantey, **Kwabena Biritwum Nyarko**, Eugene Appiah-Effah (2017). Greywater characterization and handling practices among urban households in Ghana: the case of three communities in Kumasi Metropolis. *Water Science & Technology*. https://doi.org/10.2166/wst.2017.229

41. F Owusu-Nimo, **KB Nyarko** (2017). Operational dynamics of "Galamsey" within eleven selected districts of western region of Ghana. *Journal of Mining and Environment*. https://jme.shahroodut.ac.ir/article_627.html

42. Albert Ebo Duncan, **K Nyarko** (2016). Assessing The effect of integrated water resources management on water quality in Ghana. *International Journal of Latest Research in Science and Technology*. https://scholar.google.com/scholar?cluster=6237573264818651 78&hl=en&oi=scholarr

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44. Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, Eric Ofosu Antwi, Esi Awuah (2016). Effect of bulking materials and mixing ratios on concentration of nutrients during composting of raw faecal sludge from peri-urban areas. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2016.028

45. **Kwabena Biritwum Nyarko**, Sampson Oduro Kwarteng, Bismark Dwumfour Asare, Kwaku Opoku Boakye (2016). Incentives for water supply to the urban poor and the role of the regulator in Ghana. *International Journal of Water*. https://doi.org/10.1504/ijw.2016.075572

46. S. Taylor, S. A. Asimah, R. Buamah, **K. Nyarko**, S. P. Sekuma, Y. N. Coulibaly, A. Wozuame, P. Jeffrey, A. H. Parker (2016). Towards sustainable water, sanitation and hygiene technology use in sub-Saharan Africa: the Learning Alliance approach. *Water Policy*. https://doi.org/10.2166/wp.2016.252

47. Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, Eric Ofosu Antwi, Esi Awuah (2015). Heavy metals and microbial loads in raw fecal sludge from low income areas of Ashanti Region of Ghana. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2015.014

48. Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, Leticia Adum, Eric Ofosu Antwi, Esi Awuah (2015). Perception of Peri-Urban Farmers on Fecal Sludge Compost and Its Utilization: A Case Study of Three Peri-Urban Communities in Ashanti Region of Ghana. *Compost Science & Utilization*. https://doi.org/10.1080/1065657x.2015.1046616

49. **Kwabena B Nyarko** (2014). CHARACTERIZATION OF PUBLIC TO RURAL AREAS OF ASH. *Journal of Applied Sciences in Environmental Sanitation*. https://www.researchgate.net/profile/Eugene-Appiah-Effah/publication/272478479_CHARACTERIZATION_OF_PUBLIC_TOILET_SLUDGE_FROM_PERI-URBAN_AND_RURAL_AREAS_OF_ASHANTI_REGION_OF_GHANA/links/550beba90cf2063799390414/CHARACTERIZATION-OF-PUBLIC-TOILET-SLUDGE-FROM-PERI-URBAN-AND-RURAL-AREAS-OF-ASHANTI-REGION-OF-GHANA.pdf

50. Eugene Appiah-Effah, **Kwabena Biritwum Nyarko**, Samuel Fosu Gyasi, Esi Awuah (2014). Faecal sludge management in low income areas: a case study of three districts in the Ashanti region of Ghana. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2014.126

51. Somuah Junior Tenkorang, Samuel Nii Odai, Kwaku Amaning Adjei, Frank Ohene Annor, Sampson Oduro Kwarteng, **Kwabena B. Nyarko**, Maher O. Abu Madi (2014). Impacts of variable energy prices on the financial sustainability of water facilities: case from Ghana. *International Journal of Water*. https://doi.org/10.1504/ijw.2014.060966

52. **KB Nyarko** (2014). Indicators for Benchmarking Water Supply to the Urban Poor in Ghana. *Internatonal Journal of Innovative Research & Studies*. https://scholar.google.com/scholar?cluster=14726634895112511341&hl=en&oi=scholarr

53. Bismark Dwumfour–Asare, **Kwabena Biritwum Nyarko**, Sharon Amanda Quaye (2014). The cost of urban water service delivery in Ghana: the case of the Kumasi and Accra-Tema water systems.

54. **KB Nyarko** (2013). Cost funCtions for prediCting Capital expenditure of small town water systems in ghana. *VATTEN–Journal of Water Management and Research*. https://www.academia.edu/download/40545474/SP10_Kristoff_et_al_cost_functions.pdf

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Reports 10

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2. GA Duku, **KB Nyarko**, E Appiah-Effah (2018). Alternative low-cost latrine option for rural and peri-urban communities. *Loughborough University*. https://repository.lboro.ac.uk/articles/conference_contribution/Alternative_low-cost_latrine_option_for_rural_and_peri-urban_communities/9593426

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