Frederick Ato Armah

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PROFILE

Frederick Ato Armah is a Professor of Environmental and Sustainability Science and currently the Director of Research and Programmes at the Association of African Universities (AAU) Secretariat. He was the Director of the Directorate of Research Innovation and Consultancy (DRIC), University of Cape Coast (UCC) in Ghana from April 2019 to July 2022. His professional expertise include multivariate environmental statistics; global environmental change mitigation and adaptation; environmental and natural resource management, remediation and policy; human health risk assessment; climate change-human health nexus; pollution of environmental media and biota; and socio-ecological systems. He has extensive experience in teaching, research and collaboration with partners in both developed (Canada, Sweden, Netherlands, USA) and developing countries (Ethiopia, Cameroon, Ghana, Sierra Leone, Cambodia, Tanzania). He has served as consultant to several organisations and government agencies both local and international. He holds a BSc (Hons) Degree in Chemistry from the University of Cape Coast in Ghana and MSc Degree in Environmental Studies and Sustainability Science from Lund University in Sweden. Prof Armah has a PhD in Geography (Environment and Human Health) from the University of Western Ontario in Canada. In addition, he holds a Certificate in Building African Entrepreneurship Universities in the Context of Responsible Innovations and Sustainable Development (AFRIDEP/UNECA); Certificate in Transforming Leadership and Governance (ILF); Certificate in Project Planning and Proposal Development (AAU); Certificate in University Leadership and Management Development (AAU), Certificate in Preliminary Assessment & Site Inspection of Surface water, Groundwater, Air & Soil (USEPA); and Certificate in Facilitating Multi-stakeholder Process and Social Learning: Advanced Course in the Use of Participatory Approaches for Institutional Change (WUR). He was awarded as an Outstanding Researcher at the University of Cape Coast for hard work, dexterity, and great dedication to research during the 2015/2016 academic year. Prof Armah has worked at all levels of the educational ladder (basic, secondary, tertiary) in Ghana starting from 1995. Cumulatively, he has garnered over 20 years of teaching and research experience more than half of which is at the tertiary level. As Deputy Director of DRIC from August 2016 to April 2019, Prof Armah led the development of the first UCC Intellectual Property Policy (IPP) and co-chaired the committee that crafted the first ever UCC Research Report, which has since received extensive critical acclaim. He also chaired the committee that developed the 2018-2022 UCC Research Agenda, which gives expression to the research tenets and trajectory of UCC as set out in the 2018-2022 Corporate Strategic Plan. As Deputy Director of DRIC, Prof Armah also successfully led UCC to apply for the Queen Elizabeth II (QES II) Advanced-Scholars program, which seeks to establish research capacity and leadership qualities in young African and Canadian scholars in order to enable them to competently address global challenges pertaining to Environment, Food and Health. Prof Armah is the UCC team lead on the 2.5 million dollar partnership grant titled Appraising Risk, Past and Present: Interrogating Historical Data to Enhance Understanding of Environmental Crises in the Indian Ocean World. This 7-year initiative seeks to enhance historical understanding of the factors at work in past environmental crises, and thereby significantly improve currently employed environmental risk perception and governance (ERPG) tools. The team consists of 8 Co-Applicants, 17 Partner Institutions, and 23 additional Collaborators (including UCC) spread across 17 countries in Africa, Asia, Australia, Europe, and North America. He is also co-applicant and the team lead for Ghana on the 2.5 million dollar Vulnerability to Viability (V2V): Global Partnership for Building Strong Small-Scale Fisheries Communities research grant. Prof. Armah is the country lead for the 2-million-dollar project-Farmer Organization, Mobilization and Political Opportunities ('FOMPO'), which is sponsored by the Swedish Research Council (FORMAS) and Lund University, Sweden (2020-2024). In February 2020, Prof Armah was nominated to serve as a nexus assessment scoping expert on the Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services (IPBES). He has published more than 160 peer-reviewed scientific articles in reputable international journals. In 2020, Prof. Armah won the Association of American Publishers Awards for Professional and Scholarly Excellence (PROSE) in Environmental Sciences, together with co-authors on the

Sixth Edition of the UN Global Environment Outlook Report. This award recognises the very best in professional and scholarly publishing in scientific research.

RESEARCH

Interests	Environmental Change · Pollution · Human Health · Multivariate Statistics · Systems Analysis · Applied Multivariate Statistics · Environmental Pollution · Ecosystem Remediation · Environmental Policy · Human Health Risk Assessment
Areas	Health, Toxicology and Mutagenesis · Sociology and Political Science · Global and Planetary Change · Pollution · Ecology, Evolution, Behavior and Systematics · Management, Monitoring, Policy and Law

RESEARCH SUMMARY

160	5,468	42	98	2.62	31%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 160 publications listed below, 2008–2026. Field-weighted impact is the mean over the 108 works scored for it; 1.00 is the world average for works of the same field, type and year. 33 of the 108 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Director of Research and Programmes 2023–present
DRAP, Association of African Universities, Accra, Ghana

Professor of Environmental and Sustainability Science 2019–2023
Environmental Science, University of Cape Coast, Cape Coast, Ghana

Director 2019–2022
Directorate of Research, Innovation and Consultancy, University of Cape Coast, Cape Coast, Ghana

Associate Professor 2016–2019
Environmental Science, University of Cape Coast, Cape Coast, Ghana

Deputy Director 2016–2019
Directorate of Research, Innovation and Consultancy, University of Cape Coast, Cape Coast, Ghana

Senior Lecturer 2011–2016
Environmental Science, University of Cape Coast, Cape Coast, Ghana

Lecturer 2003–2011
Environmental Science, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 147

1. David Teye Doku, Yvonne Ayerki Nartey, Obed Cudjoe, Gladys Akotoaa Sakyi, Evans Duah, George Adjei, Ruby Syal, Fiifi Amoako Johnson, **Frederick Ato Armah**, Zulfiqar Ahmed Bhutta (2026). A scoping review of the health and health-related sustainable development goals (HHSDGs) in Ghana: progress and challenges. *BMC Public Health*. https://doi.org/10.1186/s12889-025-25985-y
2. Maryam Nastar, **Frederick Ato Armah** (2026). Avoid maladaptation to urban heat: an analysis of heat-related policies in Accra, Ghana. *Local Environment*. https://doi.org/10.1080/13549839.2026.2644486
3. Benjamin Otsen, Samuel Asiedu Owusu, Justice Odoi, David Oscar Yawson, **Frederick Ato Armah** (2026). Democratic governance, public service satisfaction, and health equity in Africa: a multivariate statistical analysis. *Archives of Public Health*. https://doi.org/10.20944/preprints202602.1121.v1

4. David Oscar Yawson, Godfred O. Boateng, Karl Payne, Antonio Joyette, **Frederick Ato Armah** (2024). Attribution of environmental outcomes to climate change: Perceptions of coastal communities in the Caribbean. *Environmental Development*. https://doi.org/10.1016/j.envdev.2024.101088

5. David Oscar Yawson, Godfred O. Boateng, Antonio Joyette, Karl Payne, **Frederick A. Armah** (2024). Effect of compositional and contextual factors on the perceived importance of environmental change and livelihood sectors in three Caribbean countries. *SN Social Sciences*. https://doi.org/10.1007/s43545-024-00946-1

6. Chad S. Boda, Bernard Ekumah, Ellinor Isgren, Angela D. Akorsu, **Frederick Ato Armah**, Charles Tetteh Hombey (2024). Every farmer is a farmer? A critical analysis of the emergence and development of Peasant Farmers Association of Ghana. *Geoforum*. https://doi.org/10.1016/j.geoforum.2024.103995

7. Florence Esi Nyieku, Felix Tetteh Kabutey, Sampson Kofi Kyei, Helen M. K. Essandoh, **Frederick Ato Armah**, Esi Awuah (2024). Oilfield produced water and constructed wetlands technology: a comprehensive review. *Water Reuse*. https://doi.org/10.2166/wrd.2024.148

8. David Oscar Yawson, Godfred O. Boateng, Karl Payne, Antonio Joyette, **Frederick Ato Armah** (2024). Perceived changes in the quality of terrestrial, coastal, marine environment and natural resources in coastal communities in the Caribbean. *Local Environment*. https://doi.org/10.1080/13549839.2024.2330419

9. Chad S. Boda, Angela Dziedzom Akorsu, **Frederick Ato Armah**, Adrine Atwiine, Ronald Byaruhanga, Walter Chambati, Bernard Ekumah, Turaj Faran, Charles Tetteh Hombey, Ellinor Isgren, Anne Jerneck, Freedom Mazwi, Elizabeth Mpofu, Delmah Ndhlovu, Laury Ocen, Michaelin Sibanda (2024). Visions of sustainable development and the future of smallholder farmers in sub-Saharan Africa (and beyond). *Frontiers in Sustainable Food Systems*. https://doi.org/10.3389/fsufs.2024.1357574

10. Ana Carolina Esteves Dias, Derek Armitage, Prateep Kumar Nayak, Shehu Latunji Akintola, Evans Kwasi Arizi, Ratana Chuenpagdee, Basanta Kumar Das, Sabiha Ahmed Diba, Raktima Ghosh, Moenieba Isaacs, … **Frederick Ato Armah** and 64 others (2023). From vulnerability to viability: A situational analysis of small-scale fisheries in Asia and Africa. *Marine Policy*. https://doi.org/10.1016/j.marpol.2023.105731

11. Benjamin Ason, **Frederick Ato Armah**, David Kofi Essumang (2023). Risks of toxic elements and endocrine disruptors in some soils in Ghana. *International Journal of Environmental Studies*. https://doi.org/10.1080/00207233.2023.2192617

12. AKORSU ANGELA DZIEDZOM, **Frederick Ato Armah** (2023). Rural social movements and sustainable agricultural development in sub-Saharan Africa: towards a collaborative research agenda. *Interface*. https://openurl.ebsco.com/contentitem/gcd:173426505?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:173426505&crl=c&jrnl=20092431

13. Paul Leadley, Andrew Gonzalez, David Obura, Cornelia B. Krug, Maria Cecilia Londoño-Murcia, Katie L. Millette, Adriana Radulovici, Aleksandar Rankovic, Lynne J. Shannon, Emma Archer, … **Frederick Ato Armah** and 40 others (2022). Achieving global biodiversity goals by 2050 requires urgent and integrated actions. *One Earth*. https://doi.org/10.1016/j.oneear.2022.05.009

14. Benjamin Ason, **Frederick Ato Armah**, David Kofi Essumang (2022). Characterization and quantification of endocrine disruptors in female menstrual blood samples. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2022.10.007

15. S. Obiri, R Gobinah, D.K. Essumang, **F.A. Armah**, B. Ason, T.A. Tagbor, S.M. Kirgiz (2022). Extraction of TiO2 from kaolin deposits in the Central Region, Ghana: An alternative material for the formulation of climate-smart Portland cement. *Materials Today Proceedings*. https://doi.org/10.1016/j.matpr.2022.07.090

16. Florence Esi Nyieku, Helen M.K. Essandoh, **Frederick Ato Armah**, Esi Awuah (2022). Modelling the interaction between physico-chemical and bacteriological characteristics of oilfields produced water from a waste management facility. *Cleaner Waste Systems*. https://doi.org/10.1016/j.clwas.2022.100054

17. Florence Esi Nyieku, Helen M.K. Essandoh, **Frederick Ato Armah**, Esi Awuah (2022). Oilfield wastewater contaminants removal efficiencies of three indigenous plants species in a free water surface flow constructed wetland. *Sustainable Environment*. https://doi.org/10.1080/27658511.2022.2076361

18. Samuel A. Owusu, Bernard Ekumah, Ruby V. Kodom, Nancy I. Ebu Enyan, Irene Korkoi Aboh, Reginald

Quansah, Sheila A. Boamah, Godfred O. Boateng, Dorcas Obiri-Yeboah, David T. Doku, Epaphrodite Nsabimana, Stefan Jansen, **Frederick A. Armah** (2022). Parenting practices and family relationships during the COVID-19 lockdown in Ghana. *Journal of Public Health in Africa*. https://doi.org/10.4081/jphia.2022.1849

19. **Frederick Ato Armah** (2022). Soil Quality Index of land impacted by anthropogenic activities in coastal Ghana. *EQA-International Journal of Environmental Quality*. https://eqa.unibo.it/article/view/14197
20. Enoch Akyeampong, John R Bend, Isaac Luginaah, David Oscar Yawson, Samuel Jerry Cobbina, **Frederick Ato Armah**, Michael Osei Adu, David Kofi Essumang, Samuel Iddi, Paul K Botwe, Reginald Quansah (2022). Urinary Pesticide Residual Levels and Acute Respiratory Infections in Children Under 5 Years of Age: Findings From the Offinso North Farm Health Study. *Environmental Health Insights*. https://doi.org/10.1177/11786302221094418
21. Iddrisu Amadu, **Frederick Ato Armah**, Denis Worlanyo Aheto, Charles Atanga Adongo (2021). A study on livelihood resilience in the small-scale fisheries of Ghana using a structural equation modelling approach. *Ocean & Coastal Management*. https://doi.org/10.1016/j.ocecoaman.2021.105952
22. Iddrisu Amadu, **Frederick Ato Armah**, Denis Worlanyo Aheto (2021). Assessing Livelihood Resilience of Artisanal Fisherfolk to the Decline in Small-Scale Fisheries in Ghana. *Sustainability*. https://doi.org/10.3390/su131810404
23. Samuel Iddi, Dorcas Obiri-Yeboah, Irene Korkoi Aboh, Reginald Quansah, Samuel Asiedu Owusu, Nancy Innocentia Ebu Enyan, Ruby Victoria Kodom, Epaphrodite Nsabimana, Stefan Jansen, Benard Ekumah, Sheila A. Boamah, Godfred Odei Boateng, David Teye Doku, **Frederick Ato Armah** (2021). Coping strategies adapted by Ghanaians during the COVID-19 crisis and lockdown: A population-based study. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0253800
24. Florence Esi Nyieku, Helen M. K. Essandoh, **Frederick Ato Armah**, Esi Awuah (2021). Environmental conditions and the performance of free water surface flow constructed wetland: a multivariate statistical approach. *Wetlands Ecology and Management*. https://doi.org/10.1007/s11273-021-09785-w
25. Godfred O. Boateng, Laura M. Phipps, Laura E. Smith, **Frederick A. Armah** (2021). Household Energy Insecurity and COVID-19 Have Independent and Synergistic Health Effects on Vulnerable Populations. *Frontiers in Public Health*. https://doi.org/10.3389/fpubh.2020.609608
26. Godfred O. Boateng, David Teye Doku, Nancy Innocentia Ebu Enyan, Samuel Asiedu Owusu, Irene Korkoi Aboh, Ruby Victoria Kodom, Benard Ekumah, Reginald Quansah, Sheila A. Boamah, Dorcas Obiri-Yeboah, Epaphrodite Nsabimana, Stefan Jansen, **Frederick Ato Armah** (2021). Prevalence and changes in boredom, anxiety and well-being among Ghanaians during the COVID-19 pandemic: a population-based study. *BMC Public Health*. https://doi.org/10.1186/s12889-021-10998-0
27. Bernard Ekumah, **Frederick Ato Armah**, Ernest K. A. Afrifa, Denis Worlanyo Aheto, Justice Odoiquaye Odoi, Abdul-Rahaman Afitiri (2020). Assessing land use and land cover change in coastal urban wetlands of international importance in Ghana using Intensity Analysis. *Wetlands Ecology and Management*. https://doi.org/10.1007/s11273-020-09712-5
28. Abdul-Rahaman Afitiri, **Frederick Ato Armah**, Bernard Ekumah, Florence Esi Nyieku, David Oscar Yawson, Justice O. Odoi (2020). Cumulative effects of environmental factors on household childhood diarrhoea in Ghana. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2020.083
29. Bernard Ekumah, **Frederick Ato Armah**, David Oscar Yawson, Reginald Quansah, Florence Esi Nyieku, Samuel Asiedu Owusu, Justice Odoiquaye Odoi, Abdul-Rahaman Afitiri (2020). Disparate on-site access to water, sanitation, and food storage heighten the risk of COVID-19 spread in Sub-Saharan Africa. *Environmental Research*. https://doi.org/10.1016/j.envres.2020.109936
30. B. Sefa-Ntiri, B. Kwakye-Awuah, R. Edziah, B. Anderson, **F. A. Armah**, P. Mensah-Amoah, S. S. Sackey, F. Sam, A. G. Akyea, S. Yunus, E. Tatchie, B. K. Nkansah, F. Kumi (2020). Dissolved organic matter in hand-dug well water as groundwater quality indicator: assessment using laser-induced fluorescence spectroscopy and multivariate statistical techniques. *SN Applied Sciences*. https://doi.org/10.1007/s42452-020-2446-4
31. D. O. Yawson, **F. A. Armah**, M. O. Adu (2020). Exploring the impacts of climate change and mitigation policies on UK feed barley supply and implications for national and transnational food security. *SN Applied*

Sciences. https://doi.org/10.1007/s42452-020-2444-6

32. Bernard Ekumah, **Frederick Ato Armah**, Ernest K.A. Afrifa, Denis Worlanyo Aheto, Justice Odoiquaye Odoi, Abdul-Rahaman Afitiri (2020). Geospatial assessment of ecosystem health of coastal urban wetlands in Ghana. *Ocean & Coastal Management*. https://doi.org/10.1016/j.ocecoaman.2020.105226
33. Godfred O. Boateng, Mobolanle R. Balogun, Festus O. Dada, **Frederick A. Armah** (2020). Household energy insecurity: dimensions and consequences for women, infants and children in low- and middle-income countries. *Social Science & Medicine*. https://doi.org/10.1016/j.socscimed.2020.113068
34. D. O. Yawson, M. O. Adu, **F. A. Armah** (2020). Impacts of climate change and mitigation policies on malt barley supplies and associated virtual water flows in the UK. *Scientific Reports*. https://doi.org/10.1038/s41598-019-57256-3
35. Florence Esi Nyieku, Helen M. K. Essandoh, **Frederick Ato Armah**, Esi Awuah (2020). Joint influence of hydraulic load and hydraulic retention time on oilfields wastewater contaminant removal dynamics in free water surface flow constructed wetland. *SN Applied Sciences*. https://doi.org/10.1007/s42452-020-03751-6
36. **Frederick Ato Armah** (2020). Systems Thinking, Approach. *International Encyclopedia of Human Geography*. https://scholar.google.com/scholar?cluster=12986257522073607 63&hl=en&oi=scholarr
37. Abdul-Rahaman Afitiri, **Frederick Ato Armah**, Ernest K. A. Afrifa, Bernard Ekumah (2020). The joint effect of natural and human-induced environmental factors on surface water quality in the Birim North District of Ghana. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2020.046
38. D.O. Yawson, S. Mohan, **F.A. Armah**, T. Ball, B. Mulholland, M.O. Adu, P.J. White (2020). Virtual water flows under projected climate, land use and population change: the case of UK feed barley and meat. *Heliyon*. https://doi.org/10.1016/j.heliyon.2019.e03127
39. **Frederick Ato Armah**, Reginald Quansah, David Oscar Yawson, Luqman Abdul Kadir (2019). Assessment of Self-Reported Adverse Health Outcomes of Electronic Waste Workers Exposed to Xenobiotics in Ghana. *Environmental Justice*. https://doi.org/10.1089/env.2018.0021
40. Michael O. Adu, David O. Yawson, Ernest E. Abano, Paul A. Asare, **Frederick A. Armah**, Eugene K. Opoku (2019). Does water-saving irrigation improve the quality of fruits and vegetables? Evidence from meta-analysis. *Irrigation Science*. https://doi.org/10.1007/s00271-019-00646-2
41. **Frederick Ato Armah**, Bernard Ekumah, David Oscar Yawson, Justice O. Odoi, Abdul-Rahaman Afitiri, Florence Esi Nyieku (2019). Predictive Probabilities of Access to Clean Cooking: Evidence from the Demographic and Health Surveys in 31 Countries in Sub-Saharan Africa. *Environmental Justice*. https://doi.org/10.1089/env.2019.0002
42. Reginald Quansah, John R. Bend, **Frederick Ato Armah**, Felix Bonney, Joshua Aseidu, David Oscar Yawson, Michael Osei Adu, Isaac Luginaah, David Kofi Essumang, Abukari Abdul-Rahaman, Samuel Cobbina, Samuel Iddi, Matthew Tersigni, Samuel Afful, Peter Osei-Fosu, Edward Nketiah-Amponsah (2019). Respiratory and non-respiratory symptoms associated with pesticide management practices among farmers in Ghana's most important vegetable hub. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-019-7898-x
43. MO Adu, PA Asare, **Frederick A Armah** (2019). Transforming urban idle spaces into green, productive and aesthetic landscapes. *AgriFoSe2030 Report*. https://pub.epsilon.slu.se/id/eprint/16564/contents
44. **Frederick Ato Armah**, Bernard Ekumah, David Oscar Yawson, Justice O. Odoi, Abdul-Rahaman Afitiri, Florence Esi Nyieku (2018). Access to improved water and sanitation in sub-Saharan Africa in a quarter century. *Heliyon*. https://doi.org/10.1016/j.heliyon.2018.e00931
45. David Oscar Yawson, Michael Osei Adu, Benjamin Ason, **Frederick Ato Armah**, Emmanuel Boateng, Reggie Quansah (2018). Ghanaians Might Be at Risk of Excess Dietary Intake of Potassium Based on Food Supply Data. *Journal of Nutrition and Metabolism*. https://doi.org/10.1155/2018/5989307
46. Michael Osei Adu, David Oscar Yawson, **Frederick Ato Armah**, Ernest Ekow Abano, Reginald Quansah (2018). Systematic review of the effects of agricultural interventions on food security in northern Ghana. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0203605
47. Arnold Paintsil, **Frederick Ato Armah**, Ernest Kwesi Yanful (2017). Assessment of the Transesterification

Stage of Biodiesel Production II: Optimisation of Process Variables Using a Box-Behnken Design. *Waste and Biomass Valorization*. https://doi.org/10.1007/s12649-017-9860-x

48. Reginald Quansah, Sean Semple, Caroline A. Ochieng, Sanjar Juvekar, **Frederick Ato Armah**, Isaac Luginaah, Jacques Emina (2017). Effectiveness of interventions to reduce household air pollution and/or improve health in homes using solid fuel in low-and-middle income countries: A systematic review and meta-analysis. *Environment International*. https://doi.org/10.1016/j.envint.2017.03.010

49. Sheila A. Boamah, **Frederick Ato Armah**, Isaac Luginaah, Herbert Hambati, Ratana Chuenpagdee, Gwyn Campbell (2017). Evaluating the complex interactions between malaria and cholera prevalence, neglected tropical disease comorbidities, and community perception of health risks of climate change. *Journal of Human Behavior in the Social Environment*. https://doi.org/10.1080/10911359.2017.1336961

50. Michael O. Adu, David O. Yawson, **Frederick A. Armah**, Paul A. Asare, Kwame A. Frimpong (2017). Meta-analysis of crop yields of full, deficit, and partial root-zone drying irrigation. *Agricultural Water Management*. https://doi.org/10.1016/j.agwat.2017.11.019

51. **Frederick Ato Armah**, Arnold Paintsil, David Oscar Yawson, Michael Osei Adu, Justice O. Odoi (2017). Modelling spatio-temporal heterogeneities in groundwater quality in Ghana: a multivariate chemometric approach. *Journal of Water and Health*. https://doi.org/10.2166/wh.2017.244

52. **Frederick Ato Armah** (2017). Out of the frying pan into the fire? Urban penalty of the poor and multiple barriers to climate change adaptation in Cambodia and Tanzania. *Journal of Environmental Studies and Sciences*. https://doi.org/10.1007/s13412-015-0334-9

53. **Frederick Ato Armah**, Genesis T. Yengoh, Mengieng Ung, Isaac Luginaah, Ratana Chuenpagdee, Gwyn Campbell (2017). The unusual suspects? Perception of underlying causes of anthropogenic climate change in coastal communities in Cambodia and Tanzania. *Journal of Environmental Planning and Management*. https://doi.org/10.1080/09640568.2017.1281797

54. Alexander Angsongna, **Frederick Ato Armah**, Sheila Boamah, Herbert Hambati, Isaac Luginaah, Ratana Chuenpagdee, Gwyn Campbell (2016). A systematic review of resource habitat taboos and human health outcomes in the context of global environmental change. *Global Bioethics*. https://doi.org/10.1080/11287462.2016.1212608

55. 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

56. Arnold Paintsil, **Frederick Ato Armah**, Ernest Kwesi Yanful (2016). Assessment of the Transesterification Stage of Biodiesel Production I: Application of a Plackett–Burman Design to Select the Process Variables. *Waste and Biomass Valorization*. https://doi.org/10.1007/s12649-016-9583-4

57. Reginald Quansah, John R. Bend, Abukari Abdul-Rahaman, **Frederick Ato Armah**, Isaac Luginaah, David Kofi Essumang, Samuel Iddi, Jonathan Chevrier, Samuel Jerry Cobbina, Edward Nketiah-Amponsah, Samuel Adu-Kumi, Godfred Darko, Samuel Afful (2016). Associations between pesticide use and respiratory symptoms: A cross-sectional study in Southern Ghana. *Environmental Research*. https://doi.org/10.1016/j.envres.2016.06.013

58. Michael O Adu, David O Yawson, **Frederick A Armah**, Paul A Asare, Malcolm J Bennett, Martin R Broadley, Philip J White, Lionel X Dupuy (2016). Effects of rooting media on root growth and morphology of Brassica rapa seedlings. *South African Journal of Plant and Soil*. https://doi.org/10.1080/02571862.2016.1141336

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60. Genesis Tambang Yengoh, Zephania N. Fogwe, **Frederick Ato Armah** (2016). Floods in the Douala metropolis, Cameroon: attribution to changes in rainfall characteristics or planning failures? *Journal of Environmental Planning and Management*. https://doi.org/10.1080/09640568.2016.1149048

61. Joseph Kangmennaang, Lydia Osei, **Frederick A. Armah**, Isaac Luginaah (2016). Genetically modified

organisms and the age of (Un) reason? A critical examination of the rhetoric in the GMO public policy debates in Ghana. *Futures*. https://doi.org/10.1016/j.futures.2016.03.002

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64. **Frederick Ato Armah** (2016). Land access constraints for communities affected by large-scale land acquisition in Southern Sierra Leone. *GeoJournal*. https://doi.org/10.1007/s10708-014-9606-2
65. David Yawson, Michael Adu, Benjamin Ason, **Frederick Armah**, Genesis Yengoh (2016). Putting Soil Security on the Policy Agenda: Need for a Familiar Framework. *Challenges*. https://doi.org/10.3390/challe7020015
66. **Frederick A. Armah**, Sheila A. Boamah, Reginald Quansah, Samuel Obiri, Isaac Luginaah (2016). Unsafe Occupational Health Behaviors: Understanding Mercury-Related Environmental Health Risks to Artisanal Gold Miners in Ghana. *Frontiers in Environmental Science*. https://doi.org/10.3389/fenvs.2016.00029
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