Edward Kweku Nunoo

Associate Professor · Institute for OIL and GAS
University of Cape Coast

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PROFILE

Edward Kweku Nunoo is an Associate Professor of Natural Resource Management, Environment, and Social Safeguards. I resonate with the culture of interdisciplinary research, and have interests in Oil and Gas Resources, Renewable Energy, Energy Transition, Environment, Climate Change Mitigation and Adaptation Strategies, ESIA, Landuse Policy Analysis, and Sustainable Development. With over 15 years of experience in teaching, research and consultancy, and advocacy, I adapt to surmounting challenges, and pursue every assignment with a passion to attain measurable goals, either with a team or as an independent player.

RESEARCH

Interests	Natural resources (Petroleum & Energy) · Climate change resilience · Sustainable development · Energy transition · Renewable energies · Environment & Social Safeguards
Areas	Global and Planetary Change · Pollution · Economics and Econometrics · Management, Monitoring, Policy and Law · Renewable Energy, Sustainability and the Environment · Sociology and Political Science

RESEARCH SUMMARY

18	140	8	4	1.61	22%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 18 publications listed below, 2016–2026. Field-weighted impact is the mean over the 18 works scored for it; 1.00 is the world average for works of the same field, type and year. 4 of the 18 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Associate Professor of Natural Resource Management, Environment and Social Safeguards Consultant and Director, IOGS 2022–present
Institute for Oil and Gas (IOGS), University of Cape Coast, Cape Coast, Ghana

Director/Consultant/ Scientific Investigator 2018–2028
Institute for Oil and Gas Studies, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

Ph.D. (Environmental Sciences), MSc (Natural Resource Management) 2002–2010
Chair of Environmental Planning, Brandenburgische Technische Universität Cottbus-Senftenberg, Cottbus, Germany

PhD, MSc 2002–2010
Chair of Environmental Planning, Brandenburgische Technische Universität Cottbus-Senftenberg, Cottbus, Germany

BA Social Science (Geography & Economics) 1993–1998
Geography and Tourism, University of Cape Coast, Cape Coast, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

International Association for Energy Economics
Cleveland, United States

Institute of Environmental Management and Assessment
Lincoln, United Kingdom

Ghana Science Association
Cape Coast, UCC, Ghana

Renewable Energy Association of Ghana
Accra, Ghana

PUBLICATIONS

Journal articles 17

1. Clement Oteng, Pius Gamette, **Edward Kweku Nunoo**, Frederick Takyi (2026). Effects of Development Finance on Energy Transitions and Green Growth in Sub-Saharan Africa. *Sustainable Development*. https://doi.org/10.1002/sd.71170
2. **Edward Kweku Nunoo**, Mutawakilu Adam, Joseph Essandoh-Yedu, Eric Twum, Clement Oteng, Joseph Asafo, Philomina Kwabena (2026). Energy performance certification in West Africa: Societal impact and future pathways. *Societal Impacts*. https://doi.org/10.1016/j.socimp.2026.100185
3. Clement Oteng, Pius Gamette, **Edward Kweku Nunoo**, Frederick Takyi (2026). Revisiting the urbanization-emissions nexus: Heterogeneous effects and urban growth thresholds in sub-Saharan Africa. *Social Sciences & Humanities Open*. https://doi.org/10.1016/j.ssaho.2026.103599
4. **Edward Kweku Nunoo**, Emmanuella Lockner, Ernest Amankwah Afrifa, Joseph Essandoh-Yeddu, Eric Twum, Bernice Essien, Johnie Nyametso, Clement Oteng, Joseph Asafo, Emmanuel Amankwa, Philomina Kwabena (2026). Safety preparedness in the oil and gas industry: A psychological assessment of factors affecting employee intentions and behaviors toward emergency response. *Progress in Disaster Science*. https://doi.org/10.1016/j.pdisas.2026.100534
5. **E.K. Nunoo**, E. Twum, A. Panin, E. Amankwa, P. Kwabena (2026). Societal impact of behavioral risk to environmental hazards in HEI. *Societal Impacts*. https://doi.org/10.1016/j.socimp.2026.100186
6. Emmanuel Amankwah, Daniel Afedor, Napoleon Jackson Mensah, **Edward Nunoo** (2025). Application of slow sand filter for greywater treatment at GETFund hostel, UENR, Sunyani. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e03088
7. Clement Oteng, Pius Gamette, **Edward Kweku Nunoo**, James Atta Peprah, Kwasi Camara Obeng (2025). Climate policy uncertainty and its impact on major tuber crops futures in low-income food deficit countries. *Journal of Economic Studies*. https://doi.org/10.1108/jes-06-2025-0376
8. Abigail Nana Ama Baidoo, Jones Abrefa Danquah, **Edward Kweku Nunoo**, Simon Mariwah, Georgina Nyarko Boampong, Eric Twum, Emmanuel Amankwah, Johnie Kodjoe Nyametso (2024). Households' energy conservation and efficiency awareness practices in the Cape Coast Metropolis of Ghana. *Discover Sustainability*. https://doi.org/10.1007/s43621-023-00154-6
9. Mavis Hammond, Nicodemus Osei Owusu, **Edward Kweku Nunoo**, Georgina Boampong, Aminu Osman, Anthony Panin, Johnie Kodjoe Nyametso, Bernice Essen (2023). How quality of work-life influence employee job satisfaction in a gas processing plant in Ghana. *Discover Sustainability*. https://doi.org/10.1007/s43621-023-00127-9
10. Emmanuel Amankwah, Edward Awafo, **Edward Nunoo**, Aziz Abu (2023). Planting for food and jobs in post-COVID era: identifying the missing gaps for sustainable food production – a review. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i4.108
11. Walter Leal Filho, Amanda Lange Salvia, Rohana Ulluwishewa, Ismaila Rimi Abubakar, Mark Mifsud, Todd Jared LeVasseur, Vanderli Correia, Adriana Consorte-McCrea, Arminda Paço, Barbara Fritzen, ... **Edward Kweku Nunoo** and 12 others (2022). Linking sustainability and spirituality: A preliminary assessment in

pursuit of a sustainable and ethically correct world. *Journal of Cleaner Production*. https://doi.org/10.1016/j.jclepro.2022.135091

12. Umar Wakil Adamu, Emmanuel Yeboah, Isaac Sarfo, **Edward Kweku Nunoo**, Clement Kwang, Foster Kofi Addai, Collins Oduro, George Darko, Grace Chikomborero Ndafira, Michael Batame, Emmanuella Aboagye Appea (2021). Assessment of Oil Spillage Impact on Vegetation in South-Western Niger Delta, Nigeria. *Journal of Geography Environment and Earth Science International*. https://doi.org/10.9734/jgeesi/2021/v25i930307
13. Emmanuel Yeboah, Isaac Sarfo, **Edward Kweku Nunoo**, Vanessa Kudoh, Nii Shang, Foster Kofi Addai, Solomon Obiri Yeboah Amankwah, Emmanuel Adu Gyamfi Kedjanyi (2021). GIS-Based Emergency Fire Response for Minimization of Fire Outbreaks in the Greater Accra Metropolis, Ghana. *Journal of Geography Environment and Earth Science International*. https://doi.org/10.9734/jgeesi/2021/v25i530286
14. Isaac Sarfo, Bi Shuoben, Li Beibei, Solomon Obiri Yeboah Amankwah, Emmanuel Yeboah, John Ernest Koku, **Edward Kweku Nunoo**, Clement Kwang (2021). Spatiotemporal development of land use systems, influences and climate variability in Southwestern Ghana (1970–2020). *Environment Development and Sustainability*. https://doi.org/10.1007/s10668-021-01848-5
15. Ama Twumwaa Gyane, **Edward Kweku Nunoo**, Shafic Suleman, Joseph Essandoh-Yeddu (2021). Sustaining oil and gas multinational operations through corporate social responsibility practices. *Discover Sustainability*. https://doi.org/10.1007/s43621-021-00042-x
16. **Edward Kweku Nunoo**, Eric K. Twum, Anthony Panin, Bernice Agyeiwa Essien (2020). An assessment of perceived participatory climate change adaptation initiatives in Ghana. *Management of Environmental Quality An International Journal*. https://doi.org/10.1108/meq-05-2020-0096
17. **Edward K. Nunoo**, Eric Twum, Anthony Pannin (2016). A criteria and indicator prognosis for sustainable forest management assessments: Concepts and optional policy baskets for the high forest zone in Ghana. *Journal of Sustainable Forestry*. https://doi.org/10.1080/10549811.2015.1135066

Book chapters 1

1. Isaac Ndur Nyame, Khadijah Iddrisu, **Edward Kweku Nunoo** (2026). Tackling Energy Insecurity: A Long-Term Energy Demand Modelling for Ghana's Sustainable Future. *Energy Management and Green Investment in Africa*. https://doi.org/10.1007/978-3-032-03646-9_18