Engr. Prof. Kwasi Opoku Boadu

Associate Professor · Department of Chemistry
University of Cape Coast

ORCID 0000-0002-2898-8861 · Homepage ucc.edu.gh · Google Scholar scholar.google.com/citations?user=b2s6_qsAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/6d7c8301-1d01-4cdf-8e00-a157de676548

RESEARCH

Interests: Environmental Remediation · Chemical Processing · Oil and Gas Fields Chemicals · Petroleum Economics

Areas: General Economics, Econometrics and Finance · Ocean Engineering · Renewable Energy, Sustainability and the Environment · Electronic, Optical and Magnetic Materials · Food Science · Forestry

RESEARCH SUMMARY

24	190	7	6	2.15	18%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 24 publications listed below, 2001–2025. Field-weighted impact is the mean over the 11 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 11 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Associate Professor 2006–present
Industrial Chemistry Unit, Department of Chemistry, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2017–2020
Chemical Engineering, University of Port Harcourt, Port Harcourt, Nigeria

PUBLICATIONS

Journal articles 22

1. David Ackah, **Kwasi Opoku Boadu** (2025). Assessing the Impact of Ghana's Petroleum Management Policies on the Country's Economic Growth and Development. *Dama Academic Scholarly Journal of Researchers*. https://doi.org/10.4314/dasjr.v10i4.3
2. **& Boadu** (2025). Assessment of Digital Twin Technology in Managing Lifecycle Performance of Petroleum Infrastructure Projects. *The Nexus Journal*.
3. **Kwasi Opoku Boadu** (2025). Assessment of the impact of benzene, toluene, ethylbenzene, and xylene (BTEX) on soil microbial population in selected areas of Port Harcourt City, Nigeria. *Scientific African*. https://www.sciencedirect.com/science/article/pii/S2468227624004678
4. David Ackah, **Kwasi Opoku Boadu** (2025). Challenges and Opportunities in the Governance of Ghana's Petroleum Resources, Focusing on Transparency, Local Content, and Capacity Building. *Dama Academic Scholarly Journal of Researchers*. https://doi.org/10.4314/dasjr.v10i5.4
5. David Ackah, **Kwasi Opoku Boadu** (2025). Entrepreneurship as a Catalyst for Innovation and Economic Growth in Ghana. *Dama Academic Scholarly Journal of Researchers*. https://doi.org/10.4314/dasjr.v10i4.2
6. David Ackah, **Kwasi Opoku Boadu** (2025). Examining the Effectiveness of Environmental Regulations in Mitigating the Adverse Ecological Impacts of Petroleum Exploration and Production. *Dama Academic*

Scholarly Journal of Researchers. https://doi.org/10.4314/dasjr.v10i4.4

7. David Ackah, **Kwasi Opoku Boadu** (2025). Optimisation of Drilling Parameters Using D-Exponent Analysis for Early Detection of Abnormal Formation Pressure. *Innovations in Engineering and Technology*. https://doi.org/10.64839/iet.v5i7.1
8. David Ackah, **Kwasi Opoku Boadu** (2025). Optimising Procurement Strategies for Cost Efficiency and Risk Mitigation in Petroleum Engineering Projects: The Study of Offshore Drilling Operations. *African Journal of Procurement, Logistics & Supply Chain Management.*. https://doi.org/10.4314/ajplscm.v8i5.2
9. David Ackah, **Kwasi Opoku Boadu** (2025). The Impact of Strategic Procurement on Cost Overruns and Delays in Petroleum Exploration and Production Projects. *African Journal of Procurement, Logistics & Supply Chain Management.*. https://doi.org/10.4314/ajplscm.v8i5.3
10. David Ackah, **Kwasi Opoku Boadu** (2025). The Theoretical Foundation of Strategic Procurement: Mitigating Cost Overruns and Delays in Petroleum Exploration and Production Projects. *African Journal of Procurement, Logistics & Supply Chain Management.*. https://doi.org/10.4314/ajplscm.v8i5.4
11. Epton Joseph Koranteng- Addo, **KO Boadu** (2021). Assessment of Ni Toxicity to Fungi and Bacteria in Oil Tainted Soils in Greater Port Harcourt Area, Nigeria. *Journal of Applied Sciences & Environmental Management*. https://openurl.ebsco.com/contentitem/gcd:154126311?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:154126311&crl=c&jrnl=26591502
12. **Boadu*** (2019). Effects of Adulteration on Diesel Oil with Kerosene Fuel in Ghana. *J. Appli. Sci. Environ. Manage.*. https://openurl.ebsco.com/contentitem/gcd:138448891?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:138448891&crl=c&jrnl=26591502
13. Michael A. Anang, Michael Oteng-Peprah, **Kwasi Opoku-Boadu** (2019). Extraction and Characterisation of African Star Apple (Chrysophyllum albidum) Seed Oil and the Adsorptive Properties of the Fruit Shell in Ghana. *International Journal of Food Science*. https://doi.org/10.1155/2019/4959586
14. **Boadu** (2017). Chemical Characterization of Shea Butter Oil Soap (Butyrospermum parkii Don.G). *international journal of development and sustainability*. https://www.researchgate.net/profile/Michael-Anang/publication/321213768_Chemical_characterization_of_shea_butter_oil_soap_Butyrospermum_parkii_G_Don/links/5a15503e0f7e9b925cd53997/Chemical-characterization-of-shea-butter-oil-soap-Butyrospermum-parkii-G-Don.pdf
15. Paul R. Armstrong, Zachary J. Morchesky, Dustin T. Hess, Kofi W. Adu, David. K. Essumang, Joseph K. Tufour, Joseph E. Koranteng-Addo, **Kwasi Opoku-Boadu**, Samuel Y. Mensah (2014). Production of High Surface Area Activated Carbon from Coconut Husk. *MRS Proceedings*. https://doi.org/10.1557/opl.2014.315
16. Michael Akrofi Anang, **& Boadu.** (2013). Occupational Hazards and Environmental Health Associated with the Traditional Palm Kernel Oil Extraction Method(A Case Study of the Abura Palm Kernel Oil Industry in the …. *Der Chemica Sinica*.
17. **Boadu** (2013). Physico-Chemical Assessment of the Quality of Water of the Amansure River in the Western Region of Ghana. *Journal of Basic & Applied Sciences*.
18. Michael Akrofi Anang, SK Tulashie, **KO Boadu** (2012). Evaluation of the strength of concrete slabs using bamboo-mesh in place of iron rod mesh with palm-kernel shells as additives. *Der Chemica Sinica*. https://doi.org/10.5555/20123148222
19. **Kwasi Opoku Boadu** (2011). 17 PUBLICATIONS 124 CITATIONS. *European Journal of Experimental Biology*. https://ir.ucc.edu.gh/server/api/core/bitstreams/c43263eb-de8c-4b16-92f9-9f69c1a28479/content
20. KOB Michael Akrofi Anang, Samuel Kofi Tulashie, **KO Boadu** (2011). Effect of additives on the mechanical properties of some cement products. *University of Cape Coast*. https://ir.ucc.edu.gh/items/fc8f4700-4650-41d5-a569-0f9ca8d1661a
21. **Opoku Boadu, Kwasi**, Kofi Tulashie, Samuel, MA Anang (2011). Production of natural insecticide from Neem leaves (Azadirachta indica). *HAL (Le Centre pour la Communication Scientifique Directe)*.
22. **KO Boadu** (2001). Rapid on-site determination of chlorobenzene in water samples using ion mobility

spectrometry. *Analytica chimica acta*. https://www.sciencedirect.com/science/article/pii/S0003267001010303

Reports 1

1. **KO Boadu**, Samuel Kofi Tulashie, MA Anang (2011). Toxicological analysis of the effect of neem tree extract in an organism. *University of Cape Coast*. https://ir.ucc.edu.gh/items/febe98d6-700c-441f-854a-739134864d91

Theses 1

1. **Kwasi Opoku Boadu** (2013). Production and preservation of passion fruit juice. *SCHOOL OF PHYSICAL SCIENCES DEPARTMENT OF CHEMISTRY INDUSTRIAL CHEMISTRY UNIT PROUCTION AND PRESERVATION OF PASSION FRUIT JUICE BY SALIA MAAMA A DISSERTATION PRESENTED TO THE DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CAPE COAST*. https://www.academia.edu/download/31428827/SALIA-final.pdf