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RESEARCH

Interests	Materials Science · DNA Origami · Functionalization of DNA Origami structures · Condensed Matter Physics · Interaction of Radiation
Areas	Biomedical Engineering · Molecular Biology · Mechanics of Materials · Radiation · Radiology, Nuclear Medicine and Imaging · Pulmonary and Respiratory Medicine

RESEARCH SUMMARY

26	95	6	3	2.08	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 26 publications listed below, 2011–2026. Field-weighted impact is the mean over the 23 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 23 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 26

1. **George Kofi Amoako**, George Oppong Appiagyei Ampong, Hayford Amegbe, Klenam Korbla Ledi, Livingstone Caesar (2026). Responsible entrepreneurship, social innovation, and value creation for grand challenges. *Entrepreneurship and Regional Development*. https://doi.org/10.1080/08985626.2025.2611099
2. Stephen Onwona Adjapong, **George Kofi Amoako**, Beatrice Akosua Adjapong, Atia Alpha Alfa (2026). Sustainable Consumption: The Influence of Brand Equity on Price Premium Payments and Positive Word-of-Mouth. *Journal of Global Marketing*. https://doi.org/10.1080/08911762.2025.2606275
3. Prince James Adeti, Joseph B. Tandoh, Gyampo Owiredu, Hyacinthe Ahiamadjie, Ruth Araba Tawiah Annan, Eli Jackson Aniabo, Georgina Esinam Fianoo, Samuel Akoto Bamford, **George Amoako** (2024). Modification of tube-based X-ray fluorescence spectrometer with an Am-241 excitation-based attachment for rare-earth elements analysis. *Cogent Engineering*. https://doi.org/10.1080/23311916.2024.2356168
4. Emmanuel Gyan, **George Amoako**, Stephen Inkoom, Christiana Subaar, Barry Rahman Maamah (2023). Proposed Institutional Diagnostic Reference Levels in Computed and Direct Digital Radiography Examinations in Two Teaching Hospitals. *Journal of Radiation Protection and Research*. https://doi.org/10.14407/jrpr.2021.00367
5. P.J. Adeti, **G. Amoako**, J.B. Tandoh, O. Gyampo, H. Ahiamadjie, A.S.K. Amable, C. Kansaana, Ruth A.T. Annan, A. Bamford (2023). Rare-earth element comparative analysis in chosen geological samples using nuclear-related analytical techniques. *Nuclear Instruments and Methods in Physics Research Section B Beam Interactions with Materials and Atoms*. https://doi.org/10.1016/j.nimb.2023.04.001
6. Calvin Kwesi Gafrey, Robert Wilson, **George Amoako**, Benjamin Anderson (2021). Laser-induced Fluorescence with Multivariate Analysis in Characterizing Crude Oils from Some Selected Oil Fields in Ghana. *Physical Science International Journal*. https://doi.org/10.9734/psij/2021/v25i630262
7. Robert Wilson, Calvin Kwesi Gafrey, **George Amoako**, Benjamin Anderson (2021). Metallic Composition Analysis of Crude Petroleum from Some Oil Fields in Ghana. *Physical Science International Journal*. https://doi.org/10.9734/psij/2021/v25i530256

8. Calvin Kwesi Gafrey, Robert Wilson, **George Amoako**, Benjamin Anderson (2021). Natural Radionuclide Analysis on Crude Petroleum from Some Oil Fields in Ghana. *Physical Science International Journal*. https://doi.org/10.9734/psij/2021/v25i730271

9. Emmanuel Gyan, Stephen Inkoom, **George Amoako** (2021). Optimal exposure factors for lumbar spine AP in computed radiography examinations. *Iranian Journal of radiation research/Iranian journal of radiation research*. https://doi.org/10.29252/ijrr.19.2.421

10. Michael Kwame Vowotor, **George Amoako**, Baah Sefa-Ntiri, Samuel Amoah, Samuel Sonko Sackey, Charles Lloyd Yeboah Amuah (2020). Assessment of Nine Micronutrients in Jasmine 85 Rice Grown in Ghana Using Neutron Activation Analysis. *Environment and Pollution*. https://doi.org/10.5539/ep.v9n2p29

11. E. Gyan, S. Inkoom, **G. Amoako** (2020). Entrance skin dose assessment of selected computed radiography facilities in Ghana. *Internatuinal Journal of Radiation Research*. https://doi.org/10.52547/ijrr.18.4.817

12. MK Vowotor, SS Sackey, **G Amoako**, B Sefa-Ntiri, CLY Amuah, KK Mireku (2020). Epithermal Instrumental Neutron Activation Analysis Technique in Determining Bromine, Chlorine, and Iodine in Sarotherodon Melanotheron from the Benya Lagoon, Ghana. *International Journal of Science and Engineering Investigations*. https://ir.ucc.edu.gh/server/api/core/bitstreams/f2fc889d-3b53-48ec-b59e-10db1248d6bd/content

13. **George Amoako** (2019). Connecting DNA Origami Structures into a Designed and Functionalized Network. *Journal of Materials Science Research*. https://doi.org/10.5539/jmsr.v8n4p14

14. Justice Avevor, Joseph Amoako, **George Amoako**, Samuel Nii Tagoe (2019). Design and Fabrication of Water Phantom for Treatment Verification in High Dose Rate (HDR) Brachytherapy of the Cervix. *International Journal of Scientific Research in Science and Technology*. https://doi.org/10.32628/ijsrst196518

15. **George Amoako** (2019). Femtosecond Laser Structuring of Materials: A Review. *Applied Physics Research*. https://doi.org/10.5539/apr.v11n3p1

16. SS Sackey, P Mensah-Amoah, **G Amoako**, Michael Kwame Vowotor, B Sefa-Ntiri (2019). Photo-Degradation of Microbes in Hand-Dug Well-Water Using Different Radiation Sources. *International Journal of Science and Engineering Investigations (IJSEI)*. https://ir.ucc.edu.gh/server/api/core/bitstreams/10ce3736-bbe7-47a1-8b50-bfa55fb2a873/content

17. Frederick Sam, **George Amoako**, Baah Sefa-Ntiri, Anthony Twum, P. Mensah-Amoah, John Tellam (2018). Characterization of Potential Direct Recharge in the Gold Mining District of South-Western Ghana Using the Hydrus-1D Computer Code. *Journal of Geography and Geology*. https://doi.org/10.5539/jgg.v10n3p1

18. **Amoako, George**, Mensah-Amoah, Patrick (2018). Determination of Calorific Values of Coconut Shells and Coconut Husks. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.2647740

19. J. Owusu-Banahene, E. O. Darko, D. F. Charles, A. Maruf, I. Hanan, **G. Amoako** (2018). Scatter Radiation Dose Assessment in the Radiology Department of Cape Coast Teaching Hospital-Ghana. *Open Journal of Radiology*. https://doi.org/10.4236/ojrad.2018.84033

20. **George Amoako**, Patrick Mensah-Amoah, Frederick Sam, Samuel S Sackey (2018). Some Mechanical Properties of Coconut Fiber Reinforced Polyethylene Composite to Control Environmental Waste in Ghana. *Energy and Environment Research*. https://doi.org/10.5539/eer.v8n1p1

21. **George Amoako**, Zhou Ming, Moses Jojo Eghan, Samuel Sonko Sackey (2017). DNA Origami as a Tool to Design Asymmetric Gold Nanostructures. *Journal of Materials Science Research*. https://doi.org/10.5539/jmsr.v7n1p1

22. **G. Amoako**, W. Zhang, M. Zhou, S. S. Sackey, P. Mensah-Amoah (2017). Rapid Laser Direct Writing of Plasmonic Components. *Applied Physics Research*. https://doi.org/10.5539/apr.v9n6p19

23. **George Amoako**, Zhou Ming, Ye Rian, Patrick Mensah Amoah, Anthony Twum, Frederick Sam (2015). Connecting DNA origami structures using the biotin-streptavidin specific binding. *AFRICAN JOURNAL OF BIOTECHNOLOGY*. https://doi.org/10.5897/ajb2015.14697

24. **George Amoako**, Ming Zhou, RiAn Ye, LiZhou Zhuang, XiaoHong Yang, ZhiYong Shen (2013). 3D DNA origami designed with caDNAno. *Chinese Science Bulletin*. https://doi.org/10.1007/s11434-013-5879-y

25. **AMOAKO GEORGE**, RIAN YE, LIZHOU ZHUANG, XIAOHONG YANG, ZHIYONG SHEN, MING ZHOU (2013). DNA ORIGAMI SITE-SPECIFIC ARRANGEMENT OF GOLD NANOPARTICLES. *NANO*. https://doi.org/10.1142/s1793292013500641

26. **G Amoako**, SY Mensah, A Twum (2011). Stability of Gold Thin Films on Polyimide. *International Review of Physics*. https://www.researchgate.net/profile/George-Amoako-2/publication/325996198_Stability_of_Gold_Thin_Films_on_Polyimide/links/5b3b9238a6fdcc8506ee9c1e/Stability-of-Gold-Thin-Films-on-Polyimide.pdf