Savanna Nyarko

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RESEARCH

Interests	Diagnostic Radiology · Nanomedicine
Areas	Radiology, Nuclear Medicine and Imaging · Biomedical Engineering · Epidemiology · Inorganic Chemistry · Materials Chemistry · Public Health, Environmental and Occupational Health

RESEARCH SUMMARY

15	61	4	2	0.61	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 15 publications listed below, 2014–2026. 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. 0 of the 11 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 12

1. **Savanna Nyarko**, Isaac Frimpong Brobbey, Emmanuel Fiagbedzi, Emmanuel Aboagye Appiah, Samuel Ackom (2026). A case report of pleomorphic adenoma in a 27-year-old female. *Radiology Case Reports*. https://doi.org/10.1016/j.radcr.2026.06.144
2. **Savanna Nyarko**, Moses Jojo Eghan, Catharina De Lange Davies, Mercy Afadzi Tetteh, Jerry Opoku-Ansah, Raphaell Moreira, E. Johan Foster, Solomon Kingsley Katu, Elvis K. Tiburu (2026). Impact of Synthesis Temperature on the Drug Loading Capacity of Linde Type A Zeolite. *Journal of biomimetics, biomaterials and biomedical engineering*. https://doi.org/10.4028/p-s7thip
3. **Savanna Nyarko**, Emmanuel W Fiagbedzi (2026). Radiation Dose Assessment for Common Computed Tomography Examination at a Teaching Hospital in Ghana. *Science and Development Journal*. https://www.researchgate.net/profile/Savanna-Nyarko/publication/405723645_Radiation_Dose_Assessment_for_Common_Computed_Tomography_Examination_at_a_Teaching_Hospital_in_Ghana/links/6a1edff9bb627d1eb8789d04/Radiation-Dose-Assessment-for-Common-Computed-Tomography-Examination-at-a-Teaching-Hospital-in-Ghana.pdf
4. Emmanuel Fiagbedzi, Joseph Arkorful, Isaac Frimpong Brobbey, Emmanuel Appiah, **Savanna Nyarko**, Nicholas Otumi, Albert Dayor Piersson, Obed Nimo, Ishmael Nii Ofori, Philip Narteh Gorleku (2024). A case of ruptured infrapatellar bursa sac with Baker's cyst. *Radiology Case Reports*. https://doi.org/10.1016/j.radcr.2024.10.058
5. Emmanuel Fiagbedzi, Vivian Della Atuwo-Ampoh, Ishmael Nii Ofori, **Savanna Nyarko**, Asare Adomako, Francis Hasford, Jeffrey Gameli Amlalo, Philip Narteh Gorleku (2024). Access to brachytherapy treatment for cervical cancer management in Africa. *Clinical and Translational Radiation Oncology*. https://doi.org/10.1016/j.ctro.2024.100880
6. Christiana Odumah Hood, **Savannah Nyarko** (2023). Update on the status of Women in Physics in Ghana. *AIP Conference Proceedings*. https://pubs.aip.org/aip/acp/article-abstract/3040/1/050017/2921991
7. Emmanuel Fiagbedzi, Philip Nii Gorleku, **Savanna Nyarko**, Adomako Asare, Gideon Ackah Ndede (2022). Assessment of radiation protection knowledge and practices among radiographers in the central region of Ghana. *Radiation Medicine and Protection*. https://doi.org/10.1016/j.radmp.2022.06.001

8. Emmanuel Fiagbedzi, Philip Nii Gorleku, **Savanna Nyarko**, Bernard Frimpong, Alberta Adjei, Abel Nkrumah (2022). Perception of final year radiography students towards the proposed six-year Doctor of Radiography/Medical Imaging program. *Radiography Open*. https://doi.org/10.7577/radopen.4758
9. Emmanuel Worlali Fiagbedzi, Philip Nii Gorleku, **Savanna Nyarko**, Vivian Della Atuwo-Ampoh, Yawo Atsu Constantino Fiagan, Adomako Asare (2022). The Role of Artificial Intelligence (AI) in Radiation Protection of Computed Tomography and Fluoroscopy: A Review. *Open Journal of Medical Imaging*. https://doi.org/10.4236/ojmi.2022.121004
10. Philip Narteh Gorleku, Jacob Setorglo, Emmanuel Kobina Edzie, Albert Dayor Piersson, Ishmael Nii Ofori, James William Ampofo, **Savanna Nyarko** (2020). Assessment of Effectiveness of Problem Based Learning Pedagogical Approach in Radiography Education in a Tertiary Institution in Ghana. *Universal Journal of Educational Research*. https://doi.org/10.13189/ujer.2020.080346
11. MK Vowotor, Samuel Sonko Sackey, Christiana Odumah Hood, E Tatchie, DC Adukpo, KK Mireku, **S Nyarko** (2015). Daily Intake and Sources of Trace Elements in Sarotherodon melanotheron from the Benya Lagoon, KEEA, Ghana, Using Instrumental Neutron Activation Analysis. *Journal of Basic & Applied Sciences*. https://www.researchgate.net/profile/Samuel-Sackey-2/publication/301201935_Daily_Intake_and_Sources_of_Trace_Elements_in_Sarotherodon_melanotheron_from_the_Benya_Lagoon_KEEA_Ghana_Using_Instrumental_Neutron_Activation_Analysis/links/570bfc1a08aee0660351a954/Daily-Intake-and-Sources-of-Trace-Elements-in-Sarotherodon-melanotheron-from-the-Benya-Lagoon-KEEA-Ghana-Using-Instrumental-Neutron-Activation-Analysis.pdf
12. Michael Kwame Vowotor, Christiana Odumah Hood, Samuel Sonko Sackey, Alfred Owusu, Ebenezer Tatchie, **Savanna Nyarko**, Daniel Manu Osei, Kwadwo Kesse Mireku, Crystal Bubune Letsa, Sampson M. Atieomo (2014). An Assessment of Heavy Metal Pollution in Sediments of a Tropical Lagoon: A Case Study of the Benya Lagoon, Komenda Edina Eguafo Abrem Municipality (KEEA) — Ghana. *Journal of Health and Pollution*. https://doi.org/10.5696/2156-9614-4-6.26

Conference papers 2

1. **Savanna Nyarko**, Moses J. Eghan, Elvis K. Tiburu (2024). LTA zeolites synthesized at different temperatures and evaluating the drug loading capability. *Plasmonics: Design, Materials, Fabrication, Characterization, and Applications XXII*. https://doi.org/10.1117/12.3026507
2. Aba Bentil Andam, Paulina Amponsah, Irene Nsiah-Akoto, Christina Oduma Anderson, Baaba Andam Ababio, Yaa Akomah Asenso, **Savanna Nyarko** (2015). Women in science in Ghana: The Ghana science clinics for girls. *AIP conference proceedings*. https://doi.org/10.1063/1.4937668

Theses 1

1. **Savanna Nyarko** (2024). Drug Delivery by Zeolite Nanomaterials in Treatment of Breast Cancer: In Vitro. *University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/9bde327d-ea8a-476e-85b9-c90029d82cda/content