Prof. Sylvester Kojo Danuor

Faculty of Physical and Computational Sciences
Kwame Nkrumah University of Science and Technology

ORCID 0000-0001-6908-1935 · Google Scholar scholar.google.com/citations?user=0hUwOooAAAAJ&hl=en · Profile knust.peerford.com/staff/7bd8933b-4305-44e9-90bc-02718a94c58d

RESEARCH

Interests	Seismology and potential field methods · exploration geophyiscs · Climate and Environment
Areas	Geophysics · Atmospheric Science · Ocean Engineering · Global and Planetary Change · Artificial Intelligence · Astronomy and Astrophysics

RESEARCH SUMMARY

74	1,304	22	34	1.83	20%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 74 publications listed below, 2001–2026. Field-weighted impact is the mean over the 49 works scored for it; 1.00 is the world average for works of the same field, type and year. 10 of the 49 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 71

1. Calbert Kuunuor, Alfred K. Bienibuor, **Sylvester K. Danuor**, Michael K. Appiah, Prince Gyedu-Fosu (2026). A new seismic source model for seismic hazard assessment in southeastern Ghana. *Next Sustainability*. https://doi.org/10.1016/j.nxsust.2026.100478
2. Steven Yirenkyi, Cyril D. Boateng, Emmanuel Ahene, **Sylvester K. Danuor** (2024). Automatic lithology identification in meteorite impact craters using machine learning algorithms. *Scientific Reports*. https://doi.org/10.1038/s41598-024-62959-3
3. Michael K. Appiah, **Sylvester K. Danuor**, Alfred K. Bienibuor (2024). Performance of Continuous Wavelet Transform over Fourier Transform in Features Resolutions. *International Journal of Geosciences*. https://doi.org/10.4236/ijg.2024.152007
4. Striggner Bedu-Addo, **Sylvester Kojo Danuor**, Larry Pax Chegbeleh (2024). Petrophysical Evaluation of Cape Three Points Reservoirs. *International Journal of Geosciences*. https://doi.org/10.4236/ijg.2024.152011
5. Baah Asare-Bediako, Cyril D. Boateng, Nicholas Opoku, **Sylvester K. Danuor**, Lawrence N.B. Arthur, Yvonne M. Anokwa (2024). Seismic activities in Ghana: A systematic review. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e31536
6. Bernard Asare Owusu, Cyril Dziedzorm Boateng, Van-Dycke Sarpong Asare, **Sylvester Kojo Danuor**, Caspar Daniel Adenutsi, Jonathan Atuquaye Quaye (2024). Seismic facies analysis using machine learning techniques: a review and case study. *Earth Science Informatics*. https://doi.org/10.1007/s12145-024-01395-3
7. Striggner Bedu-Addo, **Sylvester Kojo Danuor**, Aboagye Menyeh (2024). The Impact of Model Based Offset Scaling Technique on the Amplitude Variation with Offset Responses from 3D Seismic Data Acquired from the Tano Basin, Offshore Ghana. *International Journal of Geosciences*. https://doi.org/10.4236/ijg.2024.151004
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International Journal of Geosciences. https://doi.org/10.4236/ijg.2024.152010

9. Theophilus Yaw Amponsah, David Dotse Wemegah, **Sylvester Kojo Danuor**, Eric Dominic Forson (2023). Depth-based correlation analysis between the density of lineaments in the crystalline basement's weathered zones and groundwater occurrences within the Voltaian basin, Ghana. *Geophysical Prospecting*. https://doi.org/10.1111/1365-2478.13422
10. S Christiana, K Preko, **SK Danuor** (2023). Estimation of temperature change in the human brain during magnetic resonance imaging procedure. *Journal of Science and Technology*. https://journal.knust.edu.gh/index.php/just/article/view/1471
11. Theresa Zobah, Caspar Adenutsi, Godfrey Amedjoe, Matthew Wilson, Emmanuel Mensah, Cyril Boateng, Lydia Opuni, **Sylvester Danuor**, Hassan Karimaie (2023). Evaluation of porosity and permeability of sandstones within the Oti Group of the Volta Basin using petrophysical and petrographic techniques. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i3.100
12. Winifred Ayinpogbilla Atiah, Leonard K. Amekudzi, **Sylvester K. Danuor** (2023). Mesoscale convective systems and contributions to flood cases in Southern West Africa (SWA): A systematic review. *Weather and Climate Extremes*. https://doi.org/10.1016/j.wace.2023.100551
13. Callistus Nero, Akwasi Acheampong Aning, **Sylvester Kojo Danuor**, Victor Mensah (2023). Prediction of compressional sonic log in the western (Tano) sedimentary basin of Ghana, West Africa using supervised machine learning algorithms. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e20242
14. Cyril D. Boateng, Christopher A. Akurugu, David D. Wemegah, **Sylvester K. Danuor** (2023). Underrepresentation of Local Researchers in Geophysical Studies at the Bosumtwi Impact Crater: Insights from A Systematic Review. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01893
15. Jacob Agyekum, Leonard K. Amekudzi, Thorwald Stein, Jeffrey N. A. Aryee, Winifred Ayinpogbilla Atiah, Elijah Adesanya Adefisan, **Sylvester K. Danuor** (2023). Verification of satellite and model products against a dense rain gauge network for a severe flooding event in Kumasi, Ghana. *Meteorological Applications*. https://doi.org/10.1002/met.2150
16. Martin Kohler, Geoffrey Bessardon, Barbara Brooks, Norbert Kalthoff, Fabienne Lohou, Bianca Adler, Oluwagbemiga Olawale Jegede, Barbara Altstädter, Leonard Kofitse Amekudzi, Jeffrey Nii Armah Aryee, … **Sylvester Danuor** and 29 others (2022). A meteorological dataset of the West African monsoon during the 2016 DACCIWA campaign. *Scientific Data*. https://doi.org/10.1038/s41597-022-01277-7
17. Theresa Ngmenmaaloo Zobah, Caspar Daniel Adenutsi, Godfrey Chiri Amedjoe, Matthew Coffie Wilson, Cyril Dziedzorm Boateng, Jonathan Atuquaye Quaye, Samuel Erzuah, Lian Wang, Guoxiang Zhao, Hassan Karimaie, **Sylvester Kojo Danuor** (2022). A review on the provenance of the Voltaian Basin, Ghana: Implications for hydrocarbon prospectivity. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01429
18. Theophilus Yaw Amponsah, **Sylvester Kojo Danuor**, David Dotse Wemegah, Eric Dominic Forson (2022). Groundwater potential characterisation over the Voltaian basin using geophysical, geological, hydrological and topographical datasets. *Journal of African Earth Sciences*. https://doi.org/10.1016/j.jafrearsci.2022.104558
19. Marian Amoakowaah Osei, Craig R. Ferguson, Emmanuel Quansah, Michael Padi, Leonard K. Amekudzi, **Sylvester Danuor** (2022). West Africa's moist convective environment as observed by the Atmospheric InfraRed Sounder (AIRS). *International Journal of Climatology*. https://doi.org/10.1002/joc.7983
20. Winifred A. Atiah, Leonard K. Amekudzi, Robert A. Akum, Emmanuel Quansah, Philip Antwi-Agyei, **Sylvester K. Danuor** (2021). Climate variability and impacts on maize (Zea mays) yield in Ghana, West Africa. *Quarterly Journal of the Royal Meteorological Society*. https://doi.org/10.1002/qj.4199
21. Douglas J. Parker, Alan M. Blyth, Steven J. Woolnough, Andrew J. Dougill, Caroline L. Bain, Estelle de Coning, Mariane Diop-Kane, Andre Kamga Foamouhoue, Benjamin Lamptey, Ousmane Ndiaye, … **Sylvester K. Danuor** and 39 others (2021). The African SWIFT Project: Growing Science Capability to Bring about a Revolution in Weather Prediction. *Bulletin of the American Meteorological Society*. https://doi.org/10.1175/bams-d-20-0047.1
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27. Winifred Ayinpogbilla Atiah, Leonard Kofitse Amekudzi, Jeffrey Nii Armah Aryee, Kwasi Preko, **Sylvester Kojo Danuor** (2020). Validation of Satellite and Merged Rainfall Data over Ghana, West Africa. *Atmosphere*. https://doi.org/10.3390/atmos11080859

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33. C. Flamant, P. Knippertz, A. H. Fink, A. Akpo, B. Brooks, C. J. Chiu, H. Coe, **S. Danuor**, M. Evans, O. Jegede and 35 others (2017). The Dynamics–Aerosol–Chemistry–Cloud Interactions in West Africa Field Campaign: Overview and Research Highlights. *Bulletin of the American Meteorological Society*. https://doi.org/10.1175/bams-d-16-0256.1

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41. Leonard K. Amekudzi or Leonard Amekudzi, **SK Danuor**, K Preko (2014). Preliminary Soil Resistivity Survey to Evaluate Physical Properties of Soils in the Southern Suburb of Kumasi, Ghana. *Nat. and Sci*. https://www.academia.edu/download/66551722/Preliminary_Soil_Resistivity_Survey_to_E20210422-13791-1catliv.pdf

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Books 1

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Conference papers 2

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