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RESEARCH

Interests	Geophysics
Areas	Geophysics · Ocean Engineering · Artificial Intelligence · Geography, Planning and Development · Mechanical Engineering · Waste Management and Disposal

RESEARCH SUMMARY

19	157	7	6	1.30	20%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 19 publications listed below, 2009–2024. Field-weighted impact is the mean over the 10 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 10 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 18

1. **Van-Dycke S. Asare**, David D. Wemegah, Wazi Apoh, Vandycke A. Sarpong, James O. Akingbade, Akwasi Acheampong Aning, Thomas Dwomoh (2024). KNUST SEG Geophysics Field Camp: A project to study slavery-related archaeology in West Africa. *The Leading Edge*. https://doi.org/10.1190/tle43100676.1
2. 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
3. Akwasi Acheampong Aning, **Van-Dycke Sarpong Asare**, Reginald Mensah Noye (2020). Electrical Resistivity And Induced Polarization Imaging For Refuse Dump Site. *European Scientific Journal ESJ*. https://doi.org/10.19044/esj.2020.v16n36p361
4. **Van-Dycke S. Asare**, Akwasi Acheampong Aning, Vandycke Asare Sarpong, Sylvester K. Danour, Callistus Nero (2020). Mapping the subsurface structure of the suevite deposit in the north of the Bosumtwi impact crater using electrical resistivity and seismic refraction tomographies. *Annals of Geophysics*. https://doi.org/10.4401/ag-7752
5. Akwasi Acheampong Aning, **Vandycke Sarpong Asare**, David Dotse Wemegah, Reginald Mensah Noye, Kwasi Preko, Sylvester Kojo Danuor (2019). Integrated Geophysical and Geological Mapping of the Lithological and Geological Structures at a Proposed Generator Site. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2019.712005
6. Fosu Brempong, David Dotse Wemegah, Kwasi Preko, Thomas Armah, Benjamin Boadi, Aboagye Menyeh, Isaac Amankwah Oppong, Mariam Maku Quarshie, Akwasi Acheampong Aning, **Vandycke Sarpong Asare**, Reginald Mensah Noye (2019). Interpretation of Geological Structures Hosting Potential Gold Deposits in the Konongo Gold Mine Using Airborne Magnetic, Electromagnetic and Radiometric Datasets. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2019.76016
7. Isaac Appiah, David Dotse Wemegah, **Van-Dycke Sarpong Asare**, Sylvester K. Danuor, Eric Dominic Forson (2018). Integrated geophysical characterisation of Sunyani municipal solid waste disposal site using magnetic gradiometry, magnetic susceptibility survey and electrical resistivity tomography. *Journal*

of Applied Geophysics. https://doi.org/10.1016/j.jappgeo.2018.02.007

8. **VS Asare**, AA Aning (2016). Application of Shallow Seismic Refraction and 2D Electrical Resistivity Imaging to Site Investigations. *International Journal of Scientific and Research Publications*. https://www.academia.edu/download/91878188/ijsrp-p5358.pdf
9. Leonard K. Amekudzi or Leonard Amekudzi, K Preko, **VDS Asare** (2016). Estimation of water table depths and the saturation profile using the ground penetrating radar. *Journal of Advances in Science and Technology Research (JASTER)*. https://www.academia.edu/download/53512957/QUAYE-JASTER_-Vol_3_No._1.pdf
10. **Van-Dycke S. Asare** (2016). Improving Access to Potable Water Supply using Integrated Geophysical Approach in a Rural Setting of Eastern Ghana. *Environment and Forestry*.
11. **V Asare**, CKK Sekyere, A Bart-Plange (2016). THE EFFECT OF BULK DENSITY ON THERMAL CONDUCTIVITY OF POWDERED "NAVRONGO 4" AND "TOM" VARIETIES OF BAMBARA GROUNDNUTS. *Journal of Applied Science, Technology & Management*. https://scholar.google.com/scholar?cluster=15575388586576563204&hl=en&oi=scholarr
12. **VDS Asare** (2015). Azimuthal Resistivity Sounding with the Symmetric Schlumberger and the Alpha Wenner Arrays to study subsurface electrical anisotropy variation with depth. *International Journal of Scientific and Research Publications*. https://www.researchgate.net/profile/Yuseni-Wahab/publication/300112110_Three_Dimensional_3D_Cost-Downtime_Model_for_Hostel_Facilities_Maintenance/links/5dc6e4c2299bf1a47b27169e/Three-Dimensional-3D-Cost-Downtime-Model-for-Hostel-Facilities-Maintenance.pdf#page=726
13. Elvis Boateng, **Van-Dycke Sarpong Asare**, Sylvester K. Danuor (2013). Detection and Delineation of Contaminant Migration using the Terrain Conductivity Technique outside the Perimeters of the Dompoase Landfill Facility in Kumasi – Ghana. *Journal of environment and earth science*.
14. **VDS Asare**, A Menyeh (2013). geo-electrical investigation of groundwater resources and aquifer characteristics in some small communities in the gushiegu and Karaga districts of Northern Ghana. *Int. J. Sceince Technol. Res*. https://www.researchgate.net/profile/Van-Dycke-Sarpong-Asare/publication/303844381_Geo-Electrical_Investigation_Of_Groundwater_Resources_And_Aquifer_Characteristics_In_Some_Small_Communities_In_The_Gushiegu_And_Karaga_Districts_Of_Northern_Ghana/links/57580e3008aef6cbe3627243/Geo-Electrical-Investigation-Of-Groundwater-Resources-And-Aquifer-Characteristics-In-Some-Small-Communities-In-The-Gushiegu-And-Karaga-Districts-Of-Northern-Ghana.pdf
15. **Van-Dycke Sarpong Asare** (2012). GPR detection of buried steel gas cylinder; a study conducted in a sandbox. *International Journal of Basic and Applied Sciences*. https://doi.org/10.14419/ijbas.v2i1.537
16. CD Boateng, SK Danuor, **VDS Asare** (2012). Mapping the Subsurface Structure of the Bosumtwi Impact Crater using the Ground Penetrating Radar (GPR) Equipment. *IJSRA Publishing*. https://www.researchgate.net/profile/Van-Dycke-Sarpong-Asare/publication/275212016_Mapping_the_Subsurface_Structure_of_the_Bosumtwi_Impact_Crater_using_the_Ground_Penetrating_Radar_GPR_Equipment/links/553531da0cf268fd0015a95d/Mapping-the-Subsurface-Structure-of-the-Bosumtwi-Impact-Crater-using-the-Ground-Penetrating-Radar-GPR-Equipment.pdf
17. **Van-Dycke S. Asare**, A Addo (2012). Thermal properties of gros michel banana grown in Ghana. *ARPN Journal of Engineering and Applied Sciences*. https://scholar.google.com/scholar?cluster=8945659341582728989&hl=en&oi=scholarr
18. A Bart-Plange, **V Asare**, A Addo (2009). Thermal conductivity of maize and cowpea. *Journal of Engineering and Technology*. https://scholar.google.com/scholar?cluster=11480469550380968141&hl=en&oi=scholarr

Conference papers 1

1. Cyril D. Boateng*, Sylvester K. Danuor, **Van-dycke Asare** (2013). GPR imaging with diffraction velocity analysis: Geotechnical applications in the resort towns of Abonu and Obo, Ghana. https://doi.org/10.1190/segam2013-0371.1