Edward Matthew Jnr. Osei

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RESEARCH

Areas: Global and Planetary Change · Atmospheric Science · Environmental Engineering · Ecology · Astronomy and Astrophysics · Water Science and Technology

RESEARCH SUMMARY

15	243	8	7	1.26	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 15 publications listed below, 2010–2025. Field-weighted impact is the mean over the 15 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 15 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2006–present
Geomatic Engineering, KNUST, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2001–2005
Jilin University, Changchun, China

MSc 1994–1996
Geoinformatics, University of Twente Faculty of Geo-Information Science and Earth Observation ITC, Enschede, Netherlands

BSc 1980–1985
Geomatic Engineering, KNUST, Kumasi, Ghana

PUBLICATIONS

Journal articles 15

1. Diriba Firdisa Tolasa, Emmanuel Offei Akrofi, John Wise Divine Ayer, **Edward Matthew Osei Jnr.**, Jonathan Arthur Quaye-Ballard (2025). An Assessment Of The Legal, Institutional, And Geospatial Technology For Managing Urban Land In Addis Ababa And Adama, Ethiopia. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i2.1
2. Adubofour Frimpong, Eric Kwabena Forkuo, **Edward Matthew Osei Jnr** (2024). The effect of land use land cover types on MODIS land surface temperature in Ghana. *Cogent Engineering*. https://doi.org/10.1080/23311916.2024.2411865
3. Adubofour Frimpong, Eric Kwabena Forkuo, **Edward Matthew Osei** (2023). A comparative estimate of air temperature from modis land surface temperatures in Ghana. *Cogent Engineering*. https://doi.org/10.1080/23311916.2023.2216047
4. Emmanuel Donkor, Stephen Adu-Bredu, **Edward Matthew Osei Jnr**, Samuel A. Andam-Akorful, Yakubu Mohammed (2023). Biomass Estimation Models for Cocoa (Theobroma cacao) Plantations in Ghana, West Africa. *Open Journal of Applied Sciences*. https://doi.org/10.4236/ojapps.2023.139126
5. Abdul Basir Issah, **Edward Matthew Osei Jnr**, Jeff Dacosta Osei (2023). Enhancing Sustainable Road

Infrastructure through GIS-Based Hydrological Modelling: A Solution for Equitable Development and Climate Resilience of Cross Culverts on The Sakpeigu-Chereponi Road (7+100 - 7+750) (N14) At the Yendi Municipality in Ghana. *International journal of research in science & engineering*. https://doi.org/10.55529/ijrise.36.43.60

6. Lily Lisa Yevugah, **Edward Matthew Osei Jnr**, Jesper Leth Bak, Marian Asantewah Nkansah, Godfred Darko (2023). Geospatial Distribution of Mercury in Surface Soils Across Ghana. *Chemistry Africa*. https://doi.org/10.1007/s42250-023-00681-9
7. Emmanuel Donkor, **Edward Matthew Osei Jnr**, Stephen Adu-Bredu, Samuel A. Andam-Akorful, Efiba Vidda Senkyire Kwarteng, Lily Lisa Yevugah (2022). Application of Parametric and Non Parametric Classifiers for Assessing Land Use/Land Cover Categories in Cocoa Landscape of Juaboso and Bia West Districts of Ghana. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2022.1011018
8. Christian Aboagye Abaidoo, **Edward Matthew Osei Jnr**, Anthony Arko-Adjei, Benjamin Eric Kwesi Prah (2019). Monitoring the Extent of Reclamation of Small Scale Mining Areas Using Artificial Neural Networks. *Heliyon*. https://doi.org/10.1016/j.heliyon.2019.e01445
9. Clement Kwang, **Edward Matthew Osei Jnr**, Adwoa Sarpong Amoah (2017). Comparing of Landsat 8 and Sentinel 2A using Water Extraction Indexes over Volta River. *Journal of Geography and Geology*. https://doi.org/10.5539/jgg.v10n1p1
10. Lily L. Yevugah, **Edward M. Osei Jnr.**, John Ayer, Joshua Osei Nti. (2017). Spatial Mapping of Carbon Stock in Riverine Mangroves Along Amanzule River in the Ellembelle District of Ghana. *Earth Science Research*. https://doi.org/10.5539/esr.v6n1p120
11. ZhiGuo Meng, GuoDong Yang, JinSong Ping, ZhanChuan Cai, Alexander Gusev, **Edward M. Osei** (2016). Influence of (FeO+TiO2) abundance on the microwave thermal emissions of lunar regolith. *Science China Earth Sciences*. https://doi.org/10.1007/s11430-016-5280-1
12. I.K. Nooni, A.A. Duker, I. Van Duren, L. Addae-Wireko, **E.M. Osei Jnr** (2014). Support vector machine to map oil palm in a heterogeneous environment. *International Journal of Remote Sensing*. https://doi.org/10.1080/01431161.2014.930201
13. Emmanuel A. Boakye, Hein van Gils, **Edward M. Osei**, Veronica N. A. Asare (2012). Does forest restoration using taungya foster tree species diversity? The case of A fram H eadwaters F orest R eserve in G hana. *African Journal of Ecology*. https://doi.org/10.1111/j.1365-2028.2012.01329.x
14. Edward Matthew Osei Jnr, Samuel Nii Odai, Kwaku Amaning Adjei, **Edward Matthew Osei**, Frank Ohene Annor (2012). Simulation of runoff for the Black Volta Basin using satellite observation data. *International Journal of River Basin Management*. https://doi.org/10.1080/15715124.2012.679735
15. ZhiGuo Meng, ShengBo Chen, **Edward Matthew Osei**, ZiJun Wang, TengFei Cui (2010). Research on water ice content in Cabeus crater using the data from the microwave radiometer onboard Chang'e-1 satellite. *Science China Physics Mechanics and Astronomy*. https://doi.org/10.1007/s11433-010-4159-y