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RESEARCH

Areas: Global and Planetary Change · Environmental Engineering · Ecology · Management, Monitoring, Policy and Law · Media Technology · Sociology and Political Science

RESEARCH SUMMARY

21	140	8	6	1.86	10%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 21 publications listed below, 2001–2026. Field-weighted impact is the mean over the 21 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 21 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 21

1. Michael Nyoagbe, Jonathan Arthur Quaye-Ballard, John Divine Wise Ayer, **Yaw Mensah Asare**, Tina Dzigbordi Wemegah (2026). Enhanced dam spillage prediction using lagged feedback random forests at Weija Dam, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2026.e03611
2. Emmanuel Adu-Afari, Caleb Kelly, John Ayer, **Yaw Mensah Asare**, Monica Naa Morkor Cudjoe, Samuel Ato Andam-Akorful, Gordon Foli (2026). Geospatial assessment of ground deformation in the Greater Accra Region of Ghana using SBAS-InSAR and Sentinel-1 time series. *Applied Geomatics*. https://doi.org/10.1007/s12518-026-00805-z
3. Bright Andoh-Baidoo, **Yaw Mensah Asare**, Eddie Talen, Solomon Senyo Robert Gidigasu (2026). Mapping potential hydrocarbon zones using thermal remote sensing within the Voltaian Basin onshore Ghana. *International Journal of Remote Sensing*. https://doi.org/10.1080/01431161.2026.2617171
4. Emmanuel Adu-Afari, Caleb Kelly, John Ayer, **Yaw Mensah Asare**, Muhammad Sanan, Samuel Ato Andam-Akorful, Dongkai Yang, Gordon Foli (2026). Multi-sourced data integration for detecting and mapping the 30th July 2017 Adaklu Mountain landslide in the Volta Region of Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2026.e03325
5. Michael Nyoagbe, Jonathan Arthur Quaye-Ballard, John Divine Wise Ayer, **Yaw Mensah Asare**, Tina Dzigbordi Wemegah (2026). Smart city–oriented GeoAI framework for urban flood early warning: Evidence from Weija Dam, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2026.e03591
6. Benedict Okyere Asamoah Asante, **Yaw Mensah Asare**, Joseph Agyei Danquah, Edwin Kojo Larbi, Opuni Kwarteng (2025). Comparing the Accuracy of Unmanned Aerial Vehicles and Ground Surveying Methods for Road Corridor Surveys: A Case Study of Parkoso Road. *Journal of Geomatics*. https://doi.org/10.58825/jog.2025.19.2.153
7. Itohan-Osa Abu, Michael Thiel, Clement Nyamekye, **Yaw Mensah Asare**, Emmanuel Agyapong, Benjamin Agbemor, Ebenezer N.K. Boateng, Chibuike Ibebuchi, Tobias Ullmann, Jürgen Rauh, Hannes Taubenböck (2025). How do rural industrial sites impact migrant motives and the socio-economic conditions of local and migrant populations? *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e02546
8. Christopher Uche Ezeh, Kwasi Preko, Kwaku Adjei, Sarah Schönbrodt-Stitt, **Yaw Mensah Asare**, Ogbonnaya Igwe (2025). Mapping spatiotemporal variations in soil erosion using RUSLE model in Anambra State, Nigeria. *Results in Earth Sciences*. https://doi.org/10.1016/j.rines.2025.100115

9. Ernest Biney, Eric Kwabena Forkuo, Michael Poku-Boansi, **Yaw Mensah Asare**, Kwame O. Hackman, Daniel Buston Yankey, Albert Elikplim Agbenorhevi, Ernestina Annan (2024). A comprehensive analysis and future projection of land use and land cover dynamics in a fast-growing city: A case study of Sekondi-Takoradi metropolis, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02207

10. Ernest Biney, Eric Kwabena Forkuo, Michael Poku-Boansi, Kwame O. Hackman, Emmanuel Harris, **Yaw Mensah Asare**, Daniel Buston Yankey, Ernestina Annan, Albert Elikplim Agbenorhevi (2024). Analyzing the spatio-temporal pattern of urban growth and its influence on urban heat islands in the Sekondi-Takoradi metropolis, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02366

11. Ernest Biney, Eric Kwabena Forkuo, Michael Poku-Boansi, **Yaw Mensah Asare** (2024). Geospatial assessment of urban sprawl in Sekondi-Takoradi Metropolis, Ghana from 1991 to 2023. *African Geographical Review*. https://doi.org/10.1080/19376812.2024.2334726

12. George Ashiagbor, Akua Oparebea Asare-Ansah, Emmanuel Boakye Amoah, Winston Adams Asante, **Yaw Asare Mensah** (2023). Assessment of machine learning classifiers in mapping the cocoa-forest mosaic landscape of Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01718

13. **Yaw Mensah Asare**, Irving Selby, George Ashiagbor, Cosmas Yaw Asante (2022). Analysis and prediction of land use land cover dynamics in the Kpeshie Lagoon Basin of Ghana using satellite remote sensing. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i1.64

14. Ernest Biney, Nathaniel Biney, Isaac Dadzie, Emmanuel Harris, Gladys Ama Quartey, **Yaw Mensah Asare**, Enoch Bessah, Eric Kwabena Forkuo (2022). Impact of mining on vegetation cover: A case study of Prestea Huni-Valley municipality. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01387

15. Isaac Larbi, Bessah Enoch, Clement Nyamekye, Joshua Amuzu, Gloria C. Okafor, Daniel Kwawuvi, **Yaw Mensah Asare** (2021). Changes in length of rainy season and rainfall extremes under moderate greenhouse gas emission scenario in the Vea catchment, Ghana. *Journal of Water and Climate Change*. https://doi.org/10.2166/wcc.2021.316

16. Isaac Larbi, Fabien C.C. Hountondji, Sam-Quarcoo Dotse, Daouda Mama, Clement Nyamekye, Oluwafemi E. Adeyeri, H. Djan'na Koubodana, Peter Rock Ebo Odoom, **Yaw Mensah Asare** (2021). Local climate change projections and impact on the surface hydrology in the Vea catchment, West Africa. *Hydrology research*. https://doi.org/10.2166/nh.2021.096

17. **Yaw Mensah Asare**, Eric Kwabena Forkuo, Gerald Forkuor, Michael Thiel (2019). Evaluation of gap-filling methods for Landsat 7 ETM+ SLC-off image for LULC classification in a heterogeneous landscape of West Africa. *International Journal of Remote Sensing*. https://doi.org/10.1080/01431161.2019.1693076

18. Benjamin Ghansah, **Yaw M. Asare**, Eric T. Tchao, Eric K. Forkuo (2016). Mapping the spatial changes in Lake Volta using multitemporal remote sensing approach. *Lakes & Reservoirs Science Policy and Management for Sustainable Use*. https://doi.org/10.1111/lre.12138

19. Owusu, Amos, Agyi, Kofi, Amoah, Abena, **Asare, Yaw** (2015). Methodological Evaluation of Public Health Surveillance Systems in Ghana Using Multilevel Regression Analysis for Clinical Outcomes Assessment. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.19114250

20. Agyeman, Kofi, **Asare, Yaw**, Yekini, Ahmed (2009). Climate Change Adaptation in Sahelian Pastoralist Systems: A Comparative Study in Ghana. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.18890142

21. Afriyie, Adjoa, Aninso, Kofi, **Asare, Yaw** (2001). Informal Cross-Border Trade Networks within ECOWAS: Implications for Regional Integration in Ghana, 2001. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.18734741