Kwaku Amaning Adjei

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RESEARCH

Interests: Hydrology · Remote Sensing and GIS · Water Resources · Sanitation · GIS and Remote Sensing · Flood · Hydrological Modelling

Areas: Global and Planetary Change · Water Science and Technology · Environmental Engineering · Atmospheric Science · Ocean Engineering · Nutrition and Dietetics

RESEARCH SUMMARY

94	1,693	21	44	1.21	11%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 94 publications listed below, 2007–2026. Field-weighted impact is the mean over the 76 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 76 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Professor 2007–present
Civil Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Senior Lecturer / Ing. Dr. 2007–2020
Civil Engineering, Kwame Nkrumah University of Science and Technology College of Engineering, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD / Hydrology and Water Resources 2010–2013
Hydrology and Water Resources, Hohai University, Nanjing, China

MSc / Hydrology And Water Resources Engineering 2006–2007
Hydrology and Water Resources, UNESCO-IHE Institute for Water Education, Delft, Netherlands

BSc. / Civil Engineering 2000–2004
Civil Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 83

1. Prince Antwi-Agyei, Isaac Monney, Charles Gyamfi, Saeed Ibn Idris Kofi Yeboah, **Kwaku Amaning Adjei**, Sam Drabble, Frank Kettey (2026). Communicating clearly and inclusively during public health emergencies: Lessons from Ghana's COVID-19 response. *Crisis and Risk Communication*. https://doi.org/10.1080/29986907.2026.2709345
2. GA Torsah, V Akyeampong, **KA Adjei**, LK Amekudzi (2026). Estimation of extreme rainfall using intensity-duration-frequency curves for Ashanti Region, Ghana. *Journal of Hydrology: Regional Studies*. https://www.sciencedirect.com/science/article/pii/S2214581826006166

3. Awo Boatemaa Manson Incoom, **Kwaku Amaning Adjei**, Samuel Nii Odai, Ebenezer Kwadwo Siabi, Peter Donkor, Kwasi Frimpong (2025). Adaptation strategies by smallholder farmers to climate change and variability: The case of the savannah zone of Ghana. *Sustainable Futures*. https://doi.org/10.1016/j.sftr.2025.100543

4. P. Amihere-Ackah, I. Monney, D. C. Okyere, **K. A. Adjei**, E. K. Appiah-Adjei (2025). Assessing the potential of managed aquifer recharge using rooftop rainwater harvesting with shallow wells in peri-urban communities in Kumasi, Ghana. *Discover Water*. https://doi.org/10.1007/s43832-025-00245-7

5. **KA Adjei** (2025). Calibration of the Hargreaves and Priestley-Taylor equations for estimating reference evapotranspiration in the Densu River Basin in Ghana. *Afr. J. Environ. Sci. Technol*. https://journal-backups.lon1.digitaloceanspaces.com/uploads/main/article/02463d273092.pdf

6. Vida Akyeampong, **Kwaku Amaning Adjei**, Charles Gyamfi (2025). Effects of land use/cover change on the water quality of Lake Bosomtwe. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e03159

7. **KA Adjei**, SN Odai (2025). Experimental Effects of Sand Dams on the Quality of Water and Rate of Evaporation: A case study in the Nabogo Basin. *Journal of Emerging Trends in Engineering and Applied Sciences*. https://doi.org/10.10520/ejc-sl_jeteas_v16_n2_a3

8. Ernestina Annan, Fabian Merk, William Amponsah, **Kwaku Amaning Adjei**, Markus Disse, Wilson Agyei Agyare (2025). Impact of land use and land cover changes on water balance in the Ouémé River basin, West Africa. *Hydrological Sciences Journal*. https://doi.org/10.1080/02626667.2025.2516831

9. 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

10. Paul Amihere-Ackah, Isaac Monney, Emmanuel Kwame Appiah-Adjei, **Kwaku Amaning Adjei** (2025). Spatial multi-criteria analysis for identifying suitable sites for integrated managed aquifer recharge and rooftop rainwater harvesting systems in Kumasi, Ghana. *Cleaner Water*. https://doi.org/10.1016/j.clwat.2025.100124

11. **KA Adjei**, SA Andam-Akorful, C Gyamfi, SN Odai (2024). ASSESSMENT OF NEAR-REAL-TIME SATELLITE RAINFALL ESTIMATES FOR MONITORING SUB-DAILY EXTREME PRECIPITATION EVENTS IN TROPICAL WEST AFRICA. *Chapman Conference on Remote Sensing of the Water Cycle*. https://scholar.google.com/scholar?cluster=11150844615713313568&hl=en&oi=scholarr

12. Christopher Uche Ezeh, Kwasi Preko, **Kwaku Adjei**, Ogbonnaya Igwe, Sarah Schönbrodt -Stitt, Mensah Yaw Asare, Romanus Ayadiuno (2024). IMPACT OF THE LS-FACTOR ESTIMATION METHODS ON MEAN ANNUAL SOIL LOSS. *LIFE International Journal of Health and Life-Sciences*. https://doi.org/10.20319/lijhls.2024.9.5161

13. Ayuba B. Adam, Emmanuel K. Appiah-Adjei, **Kwaku A. Adjei**, Maxwell Anim Gyampo, Emmanuel De-Graft Johnson Owusu-Ansah (2024). Managed aquifer recharge site suitability analysis in the Nabogo Basin of Ghana using GIS and Monte Carlo simulation-aided analytic hierarchy process. *Arabian Journal of Geosciences*. https://doi.org/10.1007/s12517-024-11865-z

14. C. U. Ezeh, **K. A. Adjei**, S. Schönbrodt-Stitt, O. Igwe, M. Y. Asare, K. Preko (2024). Scale-Related Variations in Soil Loss and Validation of the RUSLE Model in Anambra State, Nigeria. *Eurasian Soil Science*. https://doi.org/10.1134/s1064229324600015

15. Ernestina Annan, William Amponsah, **Kwaku Amaning Adjei**, Markus Disse, Jean Hounkpè, Ernest Biney, Albert Elikplim Agbenorhevi, Wilson Agyei Agyare (2024). Spatio-temporal land use and land cover change assessment: Insights from the Ouémé River Basin. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02262

16. Awo Boatemaa Manson Incoom, **Kwaku Amaning Adjei**, Samuel Nii Odai, Komlavi Akpoti, Ebenezer Kwadwo Siabi, Alfred Awotwi (2023). Assessing climate model accuracy and future climate change in Ghana's Savannah regions. *Journal of Water and Climate Change*. https://doi.org/10.2166/wcc.2023.070

17. Prince Asilevi Junior, Felicia Dogbey, Patrick Boakye, Jeffrey Nii Armah Aryee, Edmund Ilimoan Yamba, Stephen Yaw Owusu, David Kofi Peprah, Emmanuel Quansah, Nana Ama Browne Klutse, John Kwesi Bentum, **Kwaku Amaning Adjei**, Geophrey Kwame Anornu, Sampson Oduro-Kwarteng, Leonard Kofitse

Amekudzi (2023). Bias-corrected NASA data for aridity index estimation over tropical climates in Ghana, West Africa. *Journal of Hydrology Regional Studies*. https://doi.org/10.1016/j.ejrh.2023.101610

18. Frederick Yaw Logah, Emmanuel Obuobie, **Kwaku Amaning Adjei**, Charles Gyamfi, Samuel Nii Odai (2023). Capability of satellite rainfall products in simulating streamflows in the Black Volta Basin. *Sustainable Water Resources Management*. https://doi.org/10.1007/s40899-023-00871-w
19. Ayuba B. Adam, Emmanuel K. Appiah-Adjei, **Kwaku A. Adjei**, Maxwell Anim-Gyampo, Albert Asare, Frederick Owusu-Nimo, Bernard Audinada Ampofo (2023). Managed aquifer recharge assessment in the Nabogo Basin of Ghana using a combined electrical resistivity tomography infiltration method. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-023-01736-z
20. Charles Gyamfi, **Kwaku A. Adjei**, Ebenezer Boakye, Geophrey K. Anornu, Julius M. Ndambuki (2023). Projections of precipitation extremes over the Volta Basin: insight from CanESM2 regional climate model under RCP 4.5 and 8.5 forcing scenarios. *Environment Development and Sustainability*. https://doi.org/10.1007/s10668-023-03666-3
21. Sylvester Darko, **Kwaku Amaning Adjei**, Charles Gyamfi, Samuel Nii Odai (2023). Statistical evaluation of Jason-2 satellite altimetry products in a trans-boundary river basin; the case study of the White Volta River basin in Ghana. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-022-01655-5
22. F. O. Adjei, E. Obuobie, **K. A. Adjei**, S. N. Odai (2022). Evaluation of potential evapotranspiration assessment methods for hydrological modelling with SWAT in the Densu river basin in Ghana. *International Journal of Environmental Science and Technology*. https://doi.org/10.1007/s13762-022-03945-y
23. Awo Boatemaa Manson Incoom, **Kwaku Amaning Adjei**, Samuel Nii Odai, Komlavi Akpoti, Ebenezer Kwadwo Siabi (2022). Impacts of climate change on crop and irrigation water requirement in the Savannah regions of Ghana. *Journal of Water and Climate Change*. https://doi.org/10.2166/wcc.2022.129
24. Joachim Ayiiwe Abungba, **Kwaku Amaning Adjei**, Charles Gyamfi, Samuel Nii Odai, Santosh Murlidhar Pingale, Deepak Khare (2022). Implications of Land Use/Land Cover Changes and Climate Change on Black Volta Basin Future Water Resources in Ghana. *Sustainability*. https://doi.org/10.3390/su141912383
25. Joan A. Atullley, **Adjei A. Kwaku**, Emanuel D. J. Owusu-Ansah, Steve Ampofo, Analem Jacob, Odai S. Nii (2022). Modeling the impact of land cover changes on water balance in the Vea catchment of Ghana, 1985–2040. *Sustainable Water Resources Management*. https://doi.org/10.1007/s40899-022-00727-9
26. Mbayang Thiam, **Kwaku Amaning Adjei**, Awa Niang, Charles Gyamfi, Samuel Nii Odai, Alioune Kane (2022). Modelling the recent variations of water balance components and water availability within the Senegal River basin: using WEAP21 model. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-022-01420-8
27. Odinakachukwu C. Echeta, **Kwaku Amaning Adjei**, S. A. Andam-Akorful, Charles Gyamfi, Deborah Darko, Samuel Nii Odai, Efiba Vidda Senkyire Kwarteng (2022). Performance Evaluation of Near-Real-Time Satellite Rainfall Estimates over Three Distinct Climatic Zones in Tropical West-Africa. *Environmental Processes*. https://doi.org/10.1007/s40710-022-00613-8
28. Josephine Obodai, **Kwaku Amaning Adjei**, Albert Ebo Duncan, Samuel Nii Odai (2022). Potentially Toxic Elements (PTEs) contamination and ecological risk of sediment in the upper course of the Ankobra River, Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-022-10120-w
29. Francis Ifie-emi Oseke, Geophery Kwame Anornu, **Kwaku Amaning Adjei**, Martin Obada Eduvie (2022). Predicting the impact of climate change and the hydrological response within the Gurara reservoir catchment, Nigeria. *Journal of Water and Land Development*. https://doi.org/10.24425/jwld.2021.139023
30. Emmanuel K. Opoku, **Kwaku A. Adjei**, Charles Gyamfi, Christopher Vuu, Emmanuel K. Appiah-Adjei, Samuel N. Odai, Ebenezer K. Siabi (2022). Quantifying and analysing water trade-offs in the water-energy-food nexus: The case of Ghana. *Water-Energy Nexus*. https://doi.org/10.1016/j.wen.2022.06.001
31. Joan A. Atulley, **Adjei A. Kwaku**, Charles Gyamfi, Emanuel D. J. Owusu-Ansah, Melvin A. Adonadaga, Odai S. Nii (2022). Reservoir sedimentation and spatiotemporal land use changes in their watersheds: the case of two sub-catchments of the White Volta Basin. *Environmental Monitoring and Assessment*. https://

doi.org/10.1007/s10661-022-10431-y

32. Prince Antwi-Agyei, Isaac Monney, **Kwaku Amaning Adjei**, Raphael Kweyu, Sheillah Simiyu (2022). Shared but Clean Household Toilets: What Makes This Possible? Evidence from Ghana and Kenya. *International Journal of Environmental Research and Public Health*. https://doi.org/10.3390/ijerph19074271

33. Samuel Anim Ofosu, **Kwaku A. Adjei**, Samuel Nii Odai (2021). Assessment of the quality of the Densu river using multicriterial analysis and water quality index. *Applied Water Science*. https://doi.org/10.1007/s13201-021-01516-z

34. Sheillah Simiyu, Prince Antwi-Agyei, **Kwaku Adjei**, Raphael Kweyu (2021). Developing and Testing Strategies for Improving Cleanliness of Shared Sanitation in Low-Income Settlements of Kisumu, Kenya. *American Journal of Tropical Medicine and Hygiene*. https://doi.org/10.4269/ajtmh.20-1634

35. Sylvester Darko, **Kwaku Amaning Adjei**, Charles Gyamfi, Samuel Nii Odai, Hubert Osei-Wusuansa (2021). Evaluation of RFE Satellite Precipitation and its Use in Streamflow Simulation in Poorly Gauged Basins. *Environmental Processes*. https://doi.org/10.1007/s40710-021-00495-2

36. Dario Meili, Vasco Schelbert, Mahbub-Ul Alam, Prince Antwi-Agyei, Sheillah Simiyu, **Kwaku Amaning Adjei**, Bismark Dwumfour-Asare, Mahbubur Rahman, Christoph Lüthi, Isabel Günther (2021). Indicators for Sanitation Quality in Low-Income Urban Settlements: Evidence from Kenya, Ghana, and Bangladesh. *Social Indicators Research*. https://doi.org/10.1007/s11205-021-02855-9

37. Ifie-emi Francis Oseke, Geophery Kwame Anornu, **Kwaku Amaning Adjei**, Martin Obada Eduvie (2021). Integrated water resources management approach in mitigating the potential impacts of climate change on hydrology in Gurara reservoir catchment, Northwest Nigeria. *Proceedings of the International Association of Hydrological Sciences*. https://doi.org/10.5194/piahs-384-355-2021

38. **KA Adjei** (2021). Integrated water resources management approach<? xmltex\hack {}?> in mitigating the potential impacts of climate<? xmltex\hack {}?> change on hydrology in Gurara reservoir .... *Proceedings of the International Association of Hydrological Sciences*. https://ui.adsabs.harvard.edu/abs/2021PIAHS.384..355O/abstract

39. Joachim A. Abungba, Deepak Khare, Santosh M. Pingale, **Kwaku A. Adjei**, Charles Gyamfi, Samuel N. Odai (2020). Assessment of Hydro-climatic Trends and Variability over the Black Volta Basin in Ghana. *Earth Systems and Environment*. https://doi.org/10.1007/s41748-020-00171-9

40. Francis I. Oseke, Geophery K. Anornu, **Kwaku A. Adjei**, Martin O. Eduvie (2020). Assessment of water quality using GIS techniques and water quality index in reservoirs affected by water diversion. *Water-Energy Nexus*. https://doi.org/10.1016/j.wen.2020.12.002

41. Sheillah N. Simiyu, Raphael M. Kweyu, Prince Antwi-Agyei, **Kwaku A. Adjei** (2020). Barriers and opportunities for cleanliness of shared sanitation facilities in low-income settlements in Kenya. *BMC Public Health*. https://doi.org/10.1186/s12889-020-09768-1

42. E. A. Kwarteng, C. Gyamfi, F. O. K. Anyemedu, **K. A. Adjei**, G. K. Anornu (2020). Coupling SWAT and bathymetric data in modelling reservoir catchment hydrology. *Spatial Information Research*. https://doi.org/10.1007/s41324-020-00337-7

43. Oseke I. Francis, Geophery K. Anornu, **Kwaku A. Adjei**, Eduvie O. Martin (2020). Development of water surface area–storage capacity relationship using empirical model for Gurara reservoir, Nigeria. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-020-00949-w

44. Samuel Anim Ofosu, **Kwaku A. Adjei**, Samuel Nii Odai (2020). Ecological vulnerability of the Densu river Basin due to land use change and climate variability. *Cogent Engineering*. https://doi.org/10.1080/23311916.2020.1735714

45. Frederick Yaw Logah, **Kwaku Amaning Adjei**, Emmanuel Obuobie, Charles Gyamfi, Samuel Nii Odai (2020). Evaluation and Comparison of Satellite Rainfall Products in the Black Volta Basin. *Environmental Processes*. https://doi.org/10.1007/s40710-020-00465-0

46. Caroline Delaire, Rachel Peletz, Salim Haji, Joan Kones, Edinah Samuel, Alicea Easthope-Frazer, Eloïse Charreyron, Timothy Wang, Andy Feng, Razin Mustafiz, Ismat Jabeen Faria, Prince Antwi-Agyei, Emmanuel Donkor, **Kwaku Adjei**, Isaac Monney, Joyce Kisiangani, Clara MacLeod, Brian Mwangi, Ranjiv

Khush (2020). How Much Will Safe Sanitation for all Cost? Evidence from Five Cities. *Environmental Science & Technology*. https://doi.org/10.1021/acs.est.0c06348

47. Edward Kofi Ackom, **Kwaku Amaning Adjei**, Samuel Nii Odai (2020). Monitoring land-use and land-cover changes due to extensive urbanization in the Odaw River Basin of Accra, Ghana, 1991–2030. *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-020-00746-5
48. Emmanuel Arthur, Fred Oppong Kyekyeku Anyemedu, Charles Gyamfi, Patricia Asantewaa - Tannor, **Kwaku Amaning Adjei**, Geophrey Kwame Anornu, Samuel Nii Odai (2020). Potential for small hydropower development in the Lower Pra River Basin, Ghana. *Journal of Hydrology Regional Studies*. https://doi.org/10.1016/j.ejrh.2020.100757
49. Awo Boatemaa Manson Incoom, **Kwaku Amaning Adjei**, Samuel Nii Odai (2020). Rainfall variabilities and droughts in the Savannah zone of Ghana from 1960-2015. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00571
50. Edward Kofi Ackom, **Kwaku Amaning Adjei**, Samuel Nii Odai (2020). Spatio-temporal rainfall trend and homogeneity analysis in flood prone area: case study of Odaw river basin-Ghana. *SN Applied Sciences*. https://doi.org/10.1007/s42452-020-03924-3
51. Prince Antwi-Agyei, Bismark Dwumfour-Asare, **Kwaku Amaning Adjei**, Raphael Kweyu, Sheillah Simiyu (2020). Understanding the Barriers and Opportunities for Effective Management of Shared Sanitation in Low-Income Settlements—The Case of Kumasi, Ghana. *International Journal of Environmental Research and Public Health*. https://doi.org/10.3390/ijerph17124528
52. Vasco Schelbert, Dario Meili, Mahbub-Ul Alam, Sheillah Simiyu, Prince Antwi-Agyei, **Kwaku Amaning Adjei**, Bismark Dwumfour-Asare, Mahbubur Rahman, Sharika Ferdous, Supta Sarker, Isabel Günther, Christoph Lüthi (2020). When is shared sanitation acceptable in low-income urban settlements? A user perspective on shared sanitation quality in Kumasi, Kisumu and Dhaka. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2020.084
53. B. Kommey, E. O. Addo, **K. A. Adjei** (2019). Design and implementation of seat occupancy detection system. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v37i2.3
54. Ebenezer Gyamfi, Emmanuel Kwame Appiah-Adjei, **Kwaku Amaning Adjei** (2019). Potential heavy metal pollution of soil and water resources from artisanal mining in Kokoteasua, Ghana. *Groundwater for Sustainable Development*. https://doi.org/10.1016/j.gsd.2019.01.007
55. Emmanuel Kwame Appiah-Adjei, Enoch Ebo Baidu, **Kwaku Amaning Adjei**, Marian Asantewah Nkansah (2019). Potential heavy metal pollution of soils from artisanal automobile workshops: the case of Suame Magazine, Ghana. *Environmental Earth Sciences*. https://doi.org/10.1007/s12665-019-8069-7
56. Collins Owusu, **K. A. Adjei**, S. N. Odai (2018). Evaluation of Satellite Rainfall Estimates in the Pra Basin of Ghana. *Environmental Processes*. https://doi.org/10.1007/s40710-018-0344-1
57. Emmanuel Nsiah, Emmanuel K. Appiah-Adjei, **Kwaku A. Adjei** (2018). Hydrogeological delineation of groundwater potential zones in the Nabogo basin, Ghana. *Journal of African Earth Sciences*. https://doi.org/10.1016/j.jafrearsci.2018.03.016
58. **KA Adjei** (2018). Improving sanitation management and quality. *Policy*. https://www.researchgate.net/profile/Prince-Antwi-Agyei/publication/330687580_Improving_sanitation_management_and_quality_An_overview_of_the_'Research_on_Shared_Sanitation_in_Africa'_RESSA_Study/links/5c4f513a299bf12be3ea2570/Improving-sanitation-management-and-quality-An-overview-of-the-Research-on-Shared-Sanitation-in-Africa-RESSA-Study.pdf
59. Josephine Obodai, **Kwaku Amaning Adjei**, Samuel Nii Odai, Mawuli Lumor (2018). Land use/land cover dynamics using landsat data in a gold mining basin-the Ankobra, Ghana. *Remote Sensing Applications Society and Environment*. https://doi.org/10.1016/j.rsase.2018.10.007
60. Deborah Darko, Dennis Trolle, Ruby Asmah, Karsten Bolding, **Kwaku A. Adjei**, Samuel N. Odai (2018). Modeling the impacts of climate change on the thermal and oxygen dynamics of Lake Volta. *Journal of Great Lakes Research*. https://doi.org/10.1016/j.jglr.2018.11.010
61. Deborah Darko, **Kwaku A. Adjei**, Samuel N. Odai, Emmanuel Obuobie, Ruby Asmah, Dennis Trolle (2018).

Recent climate trends for the Volta Basin in West Africa. *Weather*. https://doi.org/10.1002/wea.3303

62. Deborah Darko, **Kwaku A. Adjei**, Emmanuel K. Appiah-Adjei, Samuel N. Odai, Emmanuel Obuobie, Ruby Asmah (2018). Simulation of climate characteristics and extremes of the Volta Basin using CCLM and RCA regional climate models. *Theoretical and Applied Climatology*. https://doi.org/10.1007/s00704-018-2485-6

63. E. K. Appiah-Adjei, N. F. Appiah, **K. A. Adjei** (2017). Potential groundwater pollution from improper oil and metal waste disposal in Suame, Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v36i3.3

64. Sani Dauda Ahmed, Sampson Kwaku Agodzo, **Kwaku Amaning Adjei**, Maxwell Deinmodei, Vivien Chikogu Ameso (2017). Preliminary investigation of flooding problems and the occurrence of kidney disease around Hadejia-Nguru wetlands, Nigeria and the need for an ecohydrology solution. *Ecohydrology & Hydrobiology*. https://doi.org/10.1016/j.ecohyd.2017.11.005

65. M. K. Domfeh, F. O. K. Anyemedu, G. K. Anornu, **K. A. Adjei**, S. N. Odai (2016). Assessment of the water balance of the Barekese reservoir in Kumasi, Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v35i3.4

66. Jean Homian Danumah, Samuel Nii Odai, Bachir Mahaman Saley, Joerg Szarzynski, Michael Thiel, **Adjei Kwaku**, Fernand Koffi Kouame, Lucette You Akpa (2016). Flood risk assessment and mapping in Abidjan district using multi-criteria analysis (AHP) model and geoinformation techniques, (cote d'ivoire). *Geoenvironmental Disasters*. https://doi.org/10.1186/s40677-016-0044-y

67. **Kwaku Amaning Adjei**, Liliang Ren, Emmanuel Kwame Appiah-Adjei, Samuel Nii Odai (2014). Application of satellite-derived rainfall for hydrological modelling in the data-scarce Black Volta trans-boundary basin. *Hydrology research*. https://doi.org/10.2166/nh.2014.111

68. Somuah Junior Tenkorang, Samuel Nii Odai, **Kwaku Amaning Adjei**, Frank Ohene Annor, Sampson Oduro Kwarteng, Kwabena B. Nyarko, Maher O. Abu Madi (2014). Impacts of variable energy prices on the financial sustainability of water facilities: case from Ghana. *International Journal of Water*. https://doi.org/10.1504/ijw.2014.060966

69. **KA Adjei** (2013). Comparison of TRMM Data with Rain Gauge Observations in the Upper Huaihe River Basin of China. *Advanced Materials Research*. https://www.scientific.net/AMR.726-731.3385

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