Collins Ayine Nsor

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RESEARCH

Interests	Ecological modeling · Ecology of plants · birds · fish and insect sp · Biodiversity Conservation
Areas	Ecology · Nature and Landscape Conservation · Ecological Modeling · Forestry · Global and Planetary Change · Plant Science

RESEARCH SUMMARY

56	476	13	15	1.66	11%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 56 publications listed below, 2012–2026. Field-weighted impact is the mean over the 44 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 44 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2016–present
Ecotourism and Forest Recreation, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD. Limnology 2010–2014
Aquatic Science, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 53

1. **Collins Ayine Nsor**, Racheal Opoku-Afriyie, Micheal Asigbaase, Dorcas Peggy Somuah, Frederick Gyasi Damptey, Louis Addae-Wireko, Frank Osei Danquah (2026). Assessing urban riparian degradation, using an indicator-based species approach in a West African suburban area. *Urban Ecosystems*. https://doi.org/10.1007/s11252-026-02004-5
2. **Collins Ayine Nsor**, Godfred Andoh, Micheal Asigbaase, Daniel Dompreh, Dorcas Peggy Somuah, Patrick Opoku, Ali Baggio Mahama, Bonna Banaamwine Kyiire (2026). Compositional distinctiveness and patterns of woody species abundance distribution in Ghana's Mole National Park, Savannah Region. *Journal of Tropical Ecology*. https://doi.org/10.1017/s0266467426100467
3. **Collins Ayine Nsor** (2026). E ects ofSandMiningonSpeciesDiversity,StandStructure and CarbonStocksinaTropicalForestinGhana: Implications forBiodiversityConservationand Ecosystem Services. *International Journal of Forestry Research*.
4. Nat Owusu-Prempeh, Acheampong Boakye Kesse, Peter Kwasi Akomatey, **Collins Ayine Nsor**, Bright Danso Appiagyei (2026). Effects of Sand Mining on Species Diversity, Stand Structure and Carbon Stocks in a Tropical Forest in Ghana: Implications for Biodiversity Conservation and Ecosystem Services. *International Journal of Forestry Research*. https://doi.org/10.1155/ijfr/3238390
5. Benjamin Apraku Gyampoh, P Osei-Tutu, **CA Nsor**, E Acquah (2026). Soil Nutrient Dynamics in a Five-Year

Agroforestry System on Gold Mine Tailings. *Trees, Forests and People*. https://www.sciencedirect.com/science/article/pii/S2666719326001639

6. Daniel Dompreh, **Collins Ayine Nsor**, Adams Latif Mohammed, Philomina Amponsah (2026). Using RAPD Analysis for in situ and ex situ conservation of Conocarpus erectus in the Central Region of Ghana. *International Journal of Innovative Science and Research Technology (IJISRT)*. https://doi.org/10.38124/ijisrt/26jan887
7. **Collins Ayine Nsor**, John Nkrumah Mensah, Samuel Boadi, Nat Owusu Prempeh, Frank Osei Danquah (2026). Using woody community structure as an indicator of riparian ecological integrity in Ghana's Ashanti Region. *Biodiversity*. https://doi.org/10.1080/14888386.2026.2690972
8. **Collins Ayine Nsor**, Vincent Agumenu, Emmanuel Acquah, Nat Owusu Prempeh, Osei Owusu Antorbre (2025). Assessment of the Structural Parameters of Vitellaria Paradoxa Cf. Gaertn. and Parkia Biglobosa (Jacq.) Benth. to Disturbance-Related Drivers in Mole National Park and Pack Adjacent Communities, in Ghana's Savannah Region. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i2
9. **CA Nsor**, E Acquah (2025). Assessment of the Structural Parameters of Vitellaria Paradoxa Cf. Gaertn. and Parkia Biglobosa (Jacq.) Benth. to Disturbance-Related Drivers in Mole National Park and Pack .... *Journal of Science and Technology*. https://journal.knust.edu.gh/index.php/just/article/view/1499
10. **Collins Ayine Nsor**, Michael Perry-Amissah, John Nkrumah Mensah, Samuel Boadi, Micheal Asigbase, Louis Addae-Wireko, Rockson Acolatse (2025). Birds' co-occurrence is mediated by diet, habitat type, and anthropogenic disturbances in Ghana's Central Region. *Avian Research*. https://doi.org/10.1016/j.avrs.2025.100251
11. **Collins Ayine Nsor**, Vincent Kusi-Kyei, Emelia Anawhyne, Micheal Asigbaase, Peggy Somuah, Patrick Opoku, Daniel Dompreh, Osei Owusu Antobre (2025). Disturbances shape the tree community in Ghana's Mole National Park. *Journal of Ecology and Environment*. https://doi.org/10.5141/jee.25.036
12. Michael Asigbaase, Linda Anaba, Daniel Adusu, Simon Abugre, Adisa Ayeley Musah, **Collins Ayine Nsor**, Daniel Akoto Sarfo (2025). Ethnobotanical Study of Medicinal Shrubs and Herbs Used by Forest-Fringe Communities of Ghana. *Scientifica*. https://doi.org/10.1155/sci5/1362301
13. Samuel Boadi, **Collins Ayine Nsor**, Shadrack Amoah Arthur, Akwasi Gyebi (2025). Fruit species composition and diversity patterns in eight age classes of cocoa agroforests, Ghana. *Agroforestry Systems*. https://doi.org/10.1007/s10457-025-01167-y
14. Osei Owusu Antobre, Akwasi Duah-Gyamfi, Winston Adams Asante, **Collins Ayine Nsor**, Boateng Kyereh, Joseph Anokye (2025). Rehabilitation of loading bays after selective logging at the Pra-Anum forest reserve, Ghana. *Sustainable Forestry*. https://doi.org/10.24294/sf11499
15. Patrick Opoku, **Collins Ayine Nsor**, Emmanuel Acquah, Dorothy Asare Akoto, Norbert Weber (2024). Actor and power analysis in urban forests and green spaces management. Insights from the Garden City of West Africa. *Forest Policy and Economics*. https://doi.org/10.1016/j.forpol.2024.103389
16. **Collins Ayine Nsor** (2024). Applied and Environmental Soil Science. *Applied and Environmental Soil Science*.
17. Michael Asigbaase, Daniel Adusu, Daniel Akoto Sarfo, **Collins Ayine Nsor**, Samuel Kumi, Seidu Adams, Paul Kofi Nsiah, Selina Adutwumwaa Acheamfour (2024). Evaluating Growth Patterns and Soil Dynamics of the Endangered African Rosewood (Pterocarpus erinaceusPoir.) in Contrasting Ecological Regions in Ghana. *International Journal of Forestry Research*. https://doi.org/10.1155/2024/9978908
18. Dorcas Peggy Somuah, Dennis Forkuo, Patrick Opoku, **Collins Ayine Nsor**, Anthony Arko-Adjei (2024). Factors enhancing and restricting the success of SRA compliance on the FLEGT/VPA initiative in Ghana. Insights from Juaso forest district in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e32368
19. Hana Šigutová, Petr Pyszko, Dan Bárta, **Collins Ayine Nsor**, Aleš Dolný (2024). Global changes in the odonate family ratios in response to the tropical forest degradation. *The Science of The Total Environment*. https://doi.org/10.1016/j.scitotenv.2024.174416
20. Michael Asigbaase, Michael Annan, Daniel Adusu, Simon Abugre, **Collins Ayine Nsor**, Samuel Kumi, Selina Adutwumwaa Acheamfour (2024). Teak-Soil Interaction: Teak (Tectona grandis) Plantations Impact and are Impacted by Soil Properties and Fertility in Southwestern Ghana. *Applied and Environmental Soil*

Science. https://doi.org/10.1155/2024/7931830

21. Michael Asigbaase, Evans Dawoe, Simon Abugre, Boateng Kyereh, **Collins Ayine Nsor** (2023). Allometric relationships between stem diameter, height and crown area of associated trees of cocoa agroforests of Ghana. *Scientific Reports*. https://doi.org/10.1038/s41598-023-42219-6
22. **Collins Ayine Nsor**, Nana Afua Ankomah Dei, John Mensah Nkrumah, Rockson Acolatse, Emmanuel Danquah (2023). Bird community structure and habitat association in Owabi Wildlife Sanctuary, Ashanti Region (Ghana). *Wildlife Research*. https://doi.org/10.1071/wr21148
23. Abena Owusu Adjapong, Samuel Kingsley Oppong, **Collins Ayine Nsor**, Emmanuel Amoah Boakye, George Ashiagbor, Emmanuel Danquah (2023). Demography and reproductive seasonality of small terrestrial mammals in two forest ecosystems in Ghana. *African Journal of Ecology*. https://doi.org/10.1111/aje.13137
24. Michael Asigbaase, Daniel Adusu, Adisa Ayeley Musah, Linda Anaba, **Collins Ayine Nsor**, Simon Abugre, Mercy Derkyi (2023). Ethnobotanical and ethnopharmacological survey of medicinal tree species used in the treatment of diseases by forest-fringe communities of Southwestern Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e23645
25. **Collins Ayine Nsor** (2023). Ethnobotanical and ethnopharmacological survey of medicinal tree species used in the treatment of diseases by the fringe communities of Asukese and Amama forest reserves of …. *Journal Heliyon*.
26. Abena Owusu Adjapong, Samuel Kingsley Oppong, Emmanuel Danquah, **Collins Ayine Nsor**, Samuel Kumi (2023). Habitat effects on morphometrics and body condition of Tullberg's soft-furred mouse (Praomys tullbergi) in two tropical forests. *Global Ecology and Conservation*. https://doi.org/10.1016/j.gecco.2023.e02741
27. Samuel Boadi, **Collins Ayine Nsor**, Emmanuel Acquah, Christable Hammond, Nat Owusu-Prempeh, Rockson Acolatse (2023). Variability in forest tree species composition and diversity in different aged cocoa agroforests of Ghana. *Agroforestry Systems*. https://doi.org/10.1007/s10457-023-00903-6
28. Abena Owusu Adjapong, Samuel Kingsley Oppong, **Collins Ayine Nsor**, Emmanuel Amoah Boakye, George Ashiagbor, Issah Seidu, Emmanuel Danquah (2022). Agri-driven habitat modification and small mammal species assemblage nexus in the Atewa Range and Bimpong Forest Reserves, Ghana. *Trees Forests and People*. https://doi.org/10.1016/j.tfp.2022.100335
29. Emmanuel Acquah, **Collins Ayine Nsor**, Samuel Boadi, Edwin Agyapong Owusu (2022). Effects of environmental factors on the distribution of flagship species in Bomfobiri Wildlife Sanctuary, Kumawu, Ghana: Implications for conservation and ecotourism development. *African Journal of Ecology*. https://doi.org/10.1111/aje.13077
30. **Collins Ayine Nsor** (2022). Evaluation of natural durability of plantation grown Gmelina arborea roxb. ex sm. wood from two vegetation zones in Ghana. *Ghana Journal of Forestry*.
31. Antobre Osei Owusu, Emmanuel Opuni-Frimpong, **Collins Ayine Nsor**, James Addai, Daniel Kwame Debrah, Benjamin Schnerch, Felicity Bentsi-Enchill, Henn Korjus (2022). Taxonomic and community composition of epigeal arthropods in monoculture and mixed tree species plantations in a deciduous forest of Ghana. *Journal of Forestry Research*. https://doi.org/10.1007/s11676-022-01508-y
32. Samuel Boadi, **Collins Ayine Nsor**, Osei Owusu Antobre, Emmanuel Acquah (2021). An analysis of illegal mining on the Offin shelterbelt forest reserve, Ghana: Implications on community livelihood. *Journal of Sustainable Mining*. https://doi.org/10.46873/2300-3960.1205
33. **Collins Ayine Nsor**, John Nkrumah Mensah, Victor Rex Barnes, Peter Kwesi Akomatey (2021). Anthropogenic drivers of plant species coexistence in selected riparian systems, Kumawu district, Ashanti region (Ghana). *Journal of Freshwater Ecology*. https://doi.org/10.1080/02705060.2021.1985642
34. Osei Owusu Antobre, Akwasi Duah Gyamfi, Winston Adams Asante, **Collins Ayine Nsor**, Boateng Kyereh (2021). Forest recovery on skid trails and felling gaps following post-decadal selective logging in a moist semi-deciduous forest in Ghana. *Trees Forests and People*. https://doi.org/10.1016/j.tfp.2021.100152
35. Samuel K. Oppong, **Collins Ayine Nsor**, Gabriel Kwabena Buabeng (2021). Response of benthic

invertebrate assemblages to seasonal and habitat condition in the Wewe River, Ashanti region (Ghana). *Open Life Sciences*. https://doi.org/10.1515/biol-2021-0040

36. **Collins Ayine Nsor**, John Nkrumah Mensah, Vincent Agumenu (2021). Riparian vegetation dynamics in protected and unprotected areas, Kumawu District—Ashanti Region (Ghana). *Tropical Ecology*. https://doi.org/10.1007/s42965-021-00147-4
37. **Collins A Nsor**, Rockson Acolatse, John N Mensah, Samuel K Oppong, Daniel Dompreh, Louis Addai-Wireko (2021). Structural assemblages of plant species in the Owabi Ramsar Wetland in the Ashanti Region of Ghana. *African Journal of Aquatic Science*. https://doi.org/10.2989/16085914.2021.1982671
38. **Collins Ayine Nsor**, Samuel K. Oppong, Emmanuel Danquah, Michael Ochem, Osei Owusu Antobre (2020). Spatiotemporal dynamics of terrestrial invertebrate assemblages in the riparian zone of the Wewe river, Ashanti region, Ghana. *Open Life Sciences*. https://doi.org/10.1515/biol-2020-0037
39. **Collins Ayine Nsor**, Osei Owusu Antobre, Asaah Sumaila Mohammed, Foster Mensah (2019). Modelling the effect of environmental disturbance on community structure and diversity of wetland vegetation in Northern Region of Ghana. *Aquatic Ecology*. https://doi.org/10.1007/s10452-019-09677-5
40. Antobre Osei Owusu, **Collins Ayine Nsor**, Emmanuel Danquah, Paul Tehoda, Samuel K. Oppong (2019). Patterns of Odonata Assemblages in Lotic and Lentic Systems in the Ankasa Conservation Area, Ghana. *International Journal of Zoology*. https://doi.org/10.1155/2019/3094787
41. **Collins Ayine Nsor**, George Ashiagbor, Emmanuel Danquah (2019). Quantifying Recent Floodplain Vegetation Change along the White Volta River in the Northern Region of Ghana. *Ghana Journal of Geography*.
42. **Collins Ayine Nsor**, Emmanuel Acquah, Grace Mensah, Vincent Kusi-Kyei, Samuel Boadi (2018). Avian Community Structure as a Function of Season, Habitat Type, and Disturbance, in Mole National Park, Northern Region (Ghana). *International Journal of Ecology*. https://doi.org/10.1155/2018/2045629
43. Antobre Osei Owusu, **Collins Ayine Nsor**, Emmanuel Danquah, Lesley T. Lancaster (2018). Odonata assemblages along an anthropogenic disturbance gradient in Ghana's Eastern Region. *Aberdeen University Research Archive (Aberdeen University)*. https://doi.org/10.5281/zenodo.1239947
44. Antobre Osei Owusu, George Ashiagbor, **Collins Ayine Nsor**, Louise M van Leeuwen (2018). Urban land transformations and its implication on tree abundance distribution and richness in Kumasi, Ghana. *Journal of Urban Ecology*. https://doi.org/10.1093/jue/juy019
45. Samuel Boadi, **Collins Ayine Nsor**, Daniel Haruna Yakubu, Emmanuel Acquah, Osei Owusu Antobre (2017). Conventional and Indigenous Biodiversity Conservation Approach: A Comparative Study of Jachie Sacred Grove and Nkrabea Forest Reserve. *International Journal of Forestry Research*. https://doi.org/10.1155/2017/1721024
46. Issah Seidu, Emmanuel Danquah, **Collins Ayine Nsor**, David Amaning Kwarteng, Lesley T. Lancaster (2017). Odonata community structure and patterns of land use in the Atewa Range Forest Reserve, Eastern Region (Ghana). *International Journal of Odonatology*. https://doi.org/10.1080/13887890.2017.1369179
47. Emmanuel Acquah, **Collins Ayine Nsor**, Emmanuel Kwamena Arthur, Samuel Boadi (2017). The socio-cultural impact of ecotourism on park-adjacent communities in Ghana. *DOAJ (DOAJ: Directory of Open Access Journals)*.
48. Samuel Boadi, **Collins Ayine Nsor**, Osei Owusu Antobre, Emmanuel Acquah (2016). An analysis of illegal mining on the Offin shelterbelt forest reserve, Ghana: Implications on community livelihood. *Journal of Sustainable Mining*. https://doi.org/10.1016/j.jsm.2016.12.001
49. **Collins Ayine Nsor**, Edward Adzesiwor Obodai (2016). Environmental Determinants Influencing Fish Community Structure and Diversity in Two Distinct Seasons among Wetlands of Northern Region (Ghana). *International Journal of Ecology*. https://doi.org/10.1155/2016/1598701
50. S Boadi, **CA Nsor**, OO Antobre (2016). Journal of Sustainable Mining. *Journal of Sustainable Mining xxx*. https://www.academia.edu/download/114435205/j.jsm.2016.12.00120240511-1-8mzbsk.pdf
51. **CA Nsor**, E Acquah (2016). Seasonal dynamics of physico-chemical characteristics in Wetlands of

Northern Region (Ghana): implications on the functional status. *Int J Aquat Sci*. https://www.academia.edu/download/76815393/article_70935_4922a05af9168ed8e973a71a84dd4ef3.pdf

52. **Collins Ayine Nsor**, Edward Adzesiwor Obodai (2014). Environmental Determinants Influencing Seasonal Variations of Bird Diversity and Abundance in Wetlands, Northern Region (Ghana). *International Journal of Zoology*. https://doi.org/10.1155/2014/548401

53. **CA Nsor** (2013). Land use changes and their impacts on the vegetation Kromme River peat basin, South Africa. *Science Journal of Environmental Engineering Research*. http://www.sjpub.org/sjeer/abstract/sjeer-166.html

Book chapters 1

1. D Dompreh, **Collins Ayine Nsor** (2019). Has Talbotiella gentii Lost Its Insect Pollinators? A Threat to Its Fragmentation and Extinction. *Advances in animal science and zoology*. https://scholar.google.com/scholar?cluster=10707480065373588l7&hl=en&oi=scholarr

Reports 1

1. **CA Nsor** (2015). Wetlands disturbance in Northern Region of Ghana: An indigenous conservation approach. *International Knowledge Press*. https://www.researchgate.net/profile/Elliot-Alhassan/publication/282977139_WETLANDS_DISTURBANCE_IN_NORTHERN_REGION_OF_GHANA_AN_INDIGENOUS_CONSERVATION_APPROACH/links/5624f62808ae93a5c92d40c2/WETLANDS-DISTURBANCE-IN-NORTHERN-REGION-OF-GHANA-AN-INDIGENOUS-CONSERVATION-APPROACH.pdf

Theses 1

1. **CA Nsor** (2012). Factors influencing the range shift of plant species in Wetlands in Northern Region (Ghana), with a note on the fish and bird Communities. *DEPARTMENT OF FISHERIES AND AQUATIC SCIENCES OF THE SCHOOL OF BIOLOGICAL SCIENCES, UNIVERSITY OF CAPE COAST*. https://ir.ucc.edu.gh/server/api/core/bitstreams/0a24b5bf-3146-455f-9800-e37046d62017/content