Nat Owusu-Prempeh

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RESEARCH

Areas: Global and Planetary Change · Nature and Landscape Conservation · Forestry · Ecology, Evolution, Behavior and Systematics · Building and Construction · Ecology

RESEARCH SUMMARY

17	105	6	3	0.68	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 17 publications listed below, 2017–2026. Field-weighted impact is the mean over the 17 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 17 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Researcher and Lecturer
Forest Resources Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 17

1. **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
2. Famoussa Dembélé, Stephen Adu-Bredu, Reginald Tang Guuroh, Eunice Okyere Agyapong, Padmore Boateng Ansah, **Nat Owusu-Prempeh**, Bismark Owusu, Dzigbordi Solomon-Ayeh, Suleiman Usman Yunusa, Aboubakar Bengaly, Larissa Raatz, Roman Hinz, Atinuke Adebanji, Samuel Kingsley Oppong, Rüdiger Schaldach, Amanuel Woldeselassie Gebremichael, Anja Linstädter (2026). Seasonal dynamics of soil CO2 efflux across land use systems and implications for mitigation under a changing climate. *Scientific Reports*. https://doi.org/10.1038/s41598-026-50708-7
3. 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
4. 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
5. Damian Tom-Dery, Shani Abukari Aduwa, Kwame Ochire Boadu, Amos Amponsah, Latif Iddrisu Nasare, **Nat Owusu-Prempeh**, Bernard N. Baatuuwie (2023). Effects of commercial farming on livelihoods and woody species in the Mion district, Ghana. *Journal of Agriculture and Food Research*. https://doi.org/10.1016/j.jafr.2023.100637
6. 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

7. **Nat Owusu-Prempeh**, Kwame Oteng Awuah, Isaac Kwaku Abebrese, Enoch Nyanteh Amaning (2022). Analysis of the status and ecological risks of heavy metals contamination in artisanal and small-scale gold mine-spoils at the Atewa Forest Landscape, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01235

8. Ismail Koné, Konan-Kan Hippolyte Kouadio, Emmanuel N'Goran Kouadio, Wilson Agyei Agyare, **Nat Owusu-Prempeh**, William Amponsah, Thomas Gaiser (2022). Assessment of soil fertility status in cotton-based cropping systems in Cote d'Ivoire. *Frontiers in Soil Science*. https://doi.org/10.3389/fsoil.2022.959325

9. Ismail Kone, Wilson Agyei Agyare, Thomas Gaiser, **Nat Owusu-Prempeh**, Konan-Kan Hippolyte Kouadio, Emmanuel NGoran Kouadio, William Amponsah (2022). Local Cotton Farmers' Perceptions of Climate Change Events and Adaptations Strategies in Cotton Basin of Cote d'Ivoire. *Journal of Sustainable Development*. https://doi.org/10.5539/jsd.v15n3p108

10. Coulibaly, Mah, Sanogo, Kapoury, Toure, Halimatou Aboubacar, **Owusu-Prempeh, Nat**, B. Villamore, Grace, Adu Bredu, Stephen, Manu, Emmanuel Amponsah (2021). Abundance and Diversity of Trees Species Under Different Land Uses in the Sudan Savannah Ecological Zone of Ghana, West Africa. *American Scientific Research Journal for Engineering, Technology, and Sciences (Global Society of Scientific Research and Researchers)*.

11. A. Asare, W. A. Asante, **N. Owusu-Prempeh**, E. Opuni Frimpong, D. Adusu (2020). Comparative Analysis of Understorey Floristic Diversity and Carbon Stocks in Poorly and Intensively Managed Tectona grandis Plantations. *International Journal of Forestry Research*. https://doi.org/10.1155/2020/8868824

12. Godwin Agyemang, Simon Abugre, **Nat Owusu-Prempeh** (2020). Drivers of Smallholder Plantation Forestry in the Tano North District of Ghana. https://doi.org/10.7176/jnsr/10-6-04

13. Etse Lossou, **Nat Owusu-Prempeh**, Godwin Agyemang (2019). Monitoring Land Cover changes in the tropical high forests using multi-temporal remote sensing and spatial analysis techniques. *Remote Sensing Applications Society and Environment*. https://doi.org/10.1016/j.rsase.2019.100264

14. **Nat Owusu-Prempeh**, Daniel Siaw, Osei Antobre (2018). Assessing the Potential Ecological Risks of a 12-Year Old Reclaimed Post-Mined Site for Agricultural Land-Use. *Current Journal of Applied Science and Technology*. https://doi.org/10.9734/cjast/2017/39456

15. Osei O. Antobre, **Nat Owusu-Prempeh**, Michael J. Twumasi-Ankrah (2018). Fish Community Assemblages of Mining-Impacted Freshwaters at Prestea, Ghana. *Asian Journal of Fisheries and Aquatic Research*. https://doi.org/10.9734/ajfar/2018/v1i1249

16. Ernest Asamoah, Lixiao Zhang, Gengyuan Liu, **Nat Owusu-Prempeh**, Emmanuel Rukundo (2017). Estimating the "Forgone" ESVs for Small-Scale Gold Mining Using Historical Image Data. *Sustainability*. https://doi.org/10.3390/su9111976

17. **Nat Owusu-Prempeh**, Osei Owusu Antobre, Thomas Agyei (2017). Floral diversity and carbon stocks and of protected forest ecosystem: A case of UENR's Bat Sanctuary, Sunyani, Ghana. *Open Journal of Forestry*. https://doi.org/10.4236/ojf.2018.81003