

Buah John Nelson

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Google Scholar scholar.google.com/citations?user=Fwx0px4AAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/d0ebfd01-3d17-4c18-bb70-8ac576003e44

RESEARCH

Interests Biotechnology

Areas Plant Science · Molecular Biology · Complementary and alternative medicine · Nature and Landscape Conservation · Nutrition and Dietetics

RESEARCH SUMMARY

28	470	13	15	0.19	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 28 publications listed below, 1996–2026. Field-weighted impact is the mean over the 4 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 4 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 26

1. Jianbin Li, Michael Ackah, Frank Kwarteng Amoako, Justice Kwaku Addo, Xin Jin, Frank Kumi, Vailly Jubline Banzouzi Bouzika, Hao Wei, John Nelson Buah, Isaac K.A. Galyuon, Meina Zhu, Mengdi Zhao, Weiguo Zhao (2026). Magnesium-induced transporters remodel the ionome of mulberry leaves by promoting the nitrate reductase (NIA) gene in nitrogen metabolism. *Plant Science*. <https://doi.org/10.1016/j.plantsci.2026.113396>
2. Rurou Long, Xueying Jin, Michael Ackah, Frank Kwarteng Amoako, Frank Kwekucher Ackah, Frank Kumi, Jianbin Li, Hao Wei, John Nelson Buah, Mengdi Zhao, Weiguo Zhao (2026). Transcriptomics and functional characterization identify CYP73A16 as a key regulator of flavonoid biosynthesis in mulberry leaves. *BMC Plant Biology*. <https://doi.org/10.1186/s12870-026-08804-3>
3. J.W. Tachie-Menson, J.N. Buah, M.O. Adu, E. Afutu (2021). Morphological diversity in purple nutsedge from four agro-ecological zones in Ghana. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2021.e07661>
4. JN Buah (2017). Evaluation of spatial arrangement of legumes on weed suppression in cassava production. *ARPN Journal of Agricultural and Biological Science*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/12f09924-6a2e-4803-aed6-10ce344d0884/content>
5. J.N and Agu Asare P Buah (2015). Coconut Water from Fresh and Dry Fruits as an Alternative to BAP in the in vitro Culture of Dwarf Cavendish Banana. *Journal of Biological Sciences*. *Journal of Biological Sciences*.
6. John Nelson Buah (2015). In vitro Growth of Dwarf Cavendish Banana Plantlets in Different Culture Vessels and Light Intensities. *International Journal of Agricultural Research*. <https://doi.org/10.3923/ijar.2016.23.31>
7. BUAH JOHN NELSON, Paul Agu Asare (2015). In vitro growth and multiplication of pineapple under different duration of sterilization and different concentrations of benzylaminopurine and sucrose. *Biotechnology*. https://www.researchgate.net/profile/Paul-Asare-2/publication/273508366_In_vitro_Growth_and_Multiplication_of_Pineapple_under_Different_Duration_of_Sterilization_and_Different_Concentrations_of_Benzylaminopurine_and_Sucrose/links/56e8752108aec65cb45ec728/In-vitro-Growth-and-Multiplication-of-Pineapple-under-Different-Duration-of-Sterilization-and-Different-Concentrations-of-Benzylaminopurine-and-Sucrose.pdf

8. JN Buah, JW Tachie-Menson (2015). Suitability of bud manipulation technique as an alternative to tissue culture in the production of suckers for plantains and bananas. *Biotechnology*. <https://doi.org/10.5555/20153137516>
9. J 4. Buah (2015). The Suitability of Bud Manipulation Technique as an Alternative to Tissue Culture in the Production of Suckers for. *Biotechnology*.
10. ABANO ERNEST EKOW, JN Buah (2014). Biotechnological approaches to improve nutritional quality and shelf life of fruits and vegetables. *International Journal of Engineering and Technology*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/0559960e-3ae2-4d01-b87d-6fb46f1e0ef1/content>
11. JN Buah, PA Asare, S Acheampong (2014). Optimizing sterilization condition for the initiation of sweet potato (*Ipomoea batatas*) culture in vitro. *Asian Journal of Biotechnology*. <https://doi.org/10.5555/20153328823>
12. E Asare-Bediako, JN Buah (2013). Prevalence of mistletoe on citrus trees in the Abura-Asebu-Kwamankese district of the Central Region of Ghana. *International Journal of Scientific & Technology Research*. https://www.researchgate.net/profile/Elvis-Asare-Bediako/publication/303254670_Prevalence_of_mistletoe_on_citrus_trees_in_the_Abura-Asebu-Kwamankese_district_of_the_central_region_Of_Ghana/links/57659a0808ae421c4489d3c2/Prevalence-of-mistletoe-on-citrus-trees-in-the-Abura-Asebu-Kwamankese-district-of-the-central-region-Of-Ghana.pdf
13. JBK Asiedu, JN Buah (2012). The Landscape Industry and practice in Ghana. *XXVIII International Horticultural Congress on Science and Horticulture for People (IHC2010): International Symposium on 937*. https://www.actahort.org/books/937/937_127.htm
14. JBK Asiedu, E Asare-Bediako, JN Buah (2011). Effect of pre-sowing treatments on seed germination and establishment of *Bauhinia rufescens*. *International Journal of Agricultural Research*. <https://www.academia.edu/download/109958918/qredirect.pdf>
15. JN Buah, JW Tachie Menson, P Asare (2011). Sugarcane juice as an alternative carbon source for in vitro culture of plantains and bananas. *American Journal of Food Technology*. https://www.academia.edu/download/52996372/In_vitro_culture_sugar_cane.pdf
16. BJ Nelson (2010). 2010 Index IEEE Nanotechnology Magazine Vol. 4. *Biotechnology*. <https://ieeexplore.ieee.org/abstract/document/5642036/>
17. JN Buah, J Asiedu (2010). The effects of different concentrations cytokinins on the in vitro multiplication of plantain (*Musa sp.*). *Biotechnology*. https://www.researchgate.net/profile/J-B-Asiedu/publication/49941896_The_Effects_of_Different_Concentrations_Cytokinins_on_the_in_vitro_Multiplication_of_Plantain_Musa_sp/links/568c747908aeb488ea2fd79d/The-Effects-of-Different-Concentrations-Cytokinins-on-the-in-vitro-Multiplication-of-Plantain-Musa-sp.pdf
18. E Asare-Bediako, JN Buah (2007). Quality of pineapple fruits as influenced by floral induction in Ghana. *American Journal of Food Technology*. https://www.researchgate.net/profile/Elvis-Asare-Bediako/publication/26629897_Quality_of_Pineapple_Fruits_as_Influenced_by_Floral_Induction_in_Ghana/links/55195f420cf273292e7160b4/Quality-of-Pineapple-Fruits-as-Influenced-by-Floral-Induction-in-Ghana.pdf
19. JN Buah, E Asare-Bediako (2006). ISSN 1816-4897© 2006 Academic Journals Inc., USA. *International Journal of Agricultural Research*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/aa6d6df2-f247-483b-babc-8cc3aed1a92b/content>
20. E Asare-Bediako, JN Buah (2006). Quality of pineapple fruits as influenced by Floral Induction in Ghana. *Nigerian Journal of Horticultural Science*. <https://www.ajol.info/index.php/njhs/article/view/3394>
21. John N BUAH (2002). Regulation of Photosynthesis during the Light Period in CAM Plants –Evaluation by a Gas-Phase O₂ Electrode and a Compensating Infrared CO₂ Analysis *Environment Control in Biology*. https://www.jstage.jst.go.jp/article/ecb1963/40/4/40_4_355/_article/-char/ja/
22. Nelson Buah Jhon (2000). Effect of various carbon sources and their combinations on in vitro growth and photosynthesis of banana plantlets. *Plant production science*. https://www.jstage.jst.go.jp/article/pps1998/3/4/3_4_392/_article/-char/ja/

23. John Nelson Buah (2000). Field performance of in vitro-propagated and sucker-derived plants of banana (*Musa* spp.). *Plant production science*. https://www.jstage.jst.go.jp/article/pps1998/3/2/3_2_124/_article/-char/ja/
24. John Nelson Buah (1999). Effects of Different Types and Concentrations of Gelling Agents on the Physical and Chemical Properties of Media and the Growth of Banana (*Musa* spp.) in Vitro. *Plant Production Science*. <https://doi.org/10.1626/pps.2.138>
25. John Nelson Buah (1998). Nursery Growth of Banana (*Musa* spp.) Plantlets Rooted on Auxin-free and Auxin-supplemented Media. *Plant Production Science*. <https://doi.org/10.1626/pps.1.207>
26. JN Buah (1996). The problem of weeds under continuous cropping systems in the scrub and thicket vegetation belt of the Central Region, Ghana. *Ghana Journal of Agricultural Science*. <https://www.ajol.info/index.php/gjas/article/download/1995/10692>

Reports 2

1. JN Buah, E Asare-Bediako (2007). Genetic estimates of water stress in tomato (*Lycopersicum esculentum*). *University of Cape Coast*. <https://ir.ucc.edu.gh/items/06fc578c-1553-46d2-923d-f4ed88369391>
2. JN Buah (1998). Development of an efficient plant regeneration protocol for sweet potato (*Ipomoea batatas* L.). *Orgz*. <https://repository.must.ac.ke/handle/123456789/1187>