Joel Bernard Kofi Asiedu

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RESEARCH

Interests	Landscape Architecture · Stormwater Management · Nature based interventions for environmental control
Areas	Mechanical Engineering · Soil Science · Agronomy and Crop Science · Plant Science

RESEARCH SUMMARY

13	333	7	7	1.67	33%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 13 publications listed below, 2010–2026. Field-weighted impact is the mean over the 3 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 3 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 11

1. Michael O. Adu, Francis Kumi, Peter B. Obour, Emmanuel Arthur, Eric Oppong Danso, Samuel Banafo, Kofi Atiah, Kwadwo K. Amoah, Paul A. Asare, **Joel Asiedu**, Donatus B. Angnuureng, Stephen E. Moore (2026). Root system architecture and shoot canopy effects drive erosion control in Napier and Vetiver grasses. *Ecological Engineering*. https://doi.org/10.1016/j.ecoleng.2026.108126
2. Michael O. Adu, Peter B. Obour, Francis Kumi, Emmanuel Arthur, Paul A. Asare, Eric Oppong Danso, Samuel A. Banafo, Kwabena A. Sanleri, Hygienus Godswill, Kofi Atiah, Kwadwo K. Amoah, **Joel B.K. Asiedu**, Stephen E. Moore, Donatus B. Angnuureng (2025). Soil reinforcement potential of multifunctional crop plants on arable and non-arable tropical soils. *Geoderma*. https://doi.org/10.1016/j.geoderma.2025.117470
3. Francis Kumi, Peter B. Obour, Emmanuel Arthur, Stephen E. Moore, Paul A. Asare, **Joel Asiedu**, Donatus B. Angnuureng, Kofi Atiah, Kwadwo K. Amoah, Shadrack K. Amponsah, Selorm Y. Dorvlo, Samuel Banafo, Michael O. Adu (2023). Quantifying root-induced soil strength, measured as soil penetration resistance, from different crop plants and soil types. *Soil and Tillage Research*. https://doi.org/10.1016/j.still.2023.105811
4. **J. B. Asiedu** (2020). Infiltrating to control floods - Suitabilitz of infiltration based systems in sub-Saharan Africa. *American Journal of Earth and Environmental Sciences*.
5. **J. B. Asiedu** (2020). Reviewing the argument on floods in urban areas: A look at the causes. *Theoritical and Empirical Research in Urban Management*. https://www.ceeol.com/search/article-detail?id=888384
6. **J. K. Asiedu** (2018). Assessing the Threat of Erosion to Nature Based Interventions for Stormwater Management and Flood Control in the Greater Accra Metropolitan Area, Ghana. *Journal of Ecological Engineering*. https://www.academia.edu/download/84964480/pdf-79418-17087.pdf
7. **J. B. K. Asiedu** (2013). Technical Report on Reclamation of Small Scale Mined lands in Ghana: A Landscape perspective. *American Journal of Environmental Protection*. https://www.academia.edu/download/110421911/env-1-2-3.pdf
8. **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

9. **JBK Asiedu** (2012). The Nursery Industry in Ghana: Prospects and Challenges. *ARPN Journal of Agriculture and Biological Sciences*. https://doi.org/10.5555/20123248104

10. **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

11. 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

Book chapters 1

1. **J. B. K. Asiedu** (2013). The Human Dimension to Urban Space in Ghana. *Urban Landscape Studies-Euphorigenic Landscapes*.

Reports 1

1. **Joel Bernard Asiedu** (2020). Application of Nature Based Interventions for Flood Control Within Greater Accra Metropolitan Area, Ghana. *University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/22bbb50e-7385-4457-8e10-a497ceec205a/content