Michael Osei Adu

List of Publications by Year
in descending order

38 papers	662 citations	759233 12 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	885 citing authors

#	Article	IF	Citations
1	Challenges and opportunities for quantifying roots and rhizosphere interactions through imaging and image analysis. Plant, Cell and Environment, 2015, 38, 1213-1232.	5.7	117
2	A scanner system for high-resolution quantification of variation in root growth dynamics of Brassica rapa genotypes. Journal of Experimental Botany, 2014, 65, 2039-2048.	4.8	96
3	Meta-analysis of crop yields of full, deficit, and partial root-zone drying irrigation. Agricultural Water Management, 2018, 197, 79-90.	5.6	76
4	Response-based selection of barley cultivars and legume species for complementarity: Root morphology and exudation in relation to nutrient source. Plant Science, 2017, 255, 12-28.	3.6	41
5	Quantifying variations in rhizosheath and root system phenotypes of landraces and improved varieties of juvenile maize. Rhizosphere, 2017, 3, 29-39.	3.0	31
6	Characterising shoot and root system trait variability and contribution to genotypic variability in juvenile cassava (Manihot esculenta Crantz) plants. Heliyon, 2018, 4, e00665.	3.2	28
7	Effect of Climate and Agricultural Land Use Changes on UK Feed Barley Production and Food Security to the 2050s. Land, 2017, 6, 74.	2.9	27
8	Analysis of root growth from a phenotyping data set using a density-based model. Journal of Experimental Botany, 2016, 67, 1045-1058.	4.8	26
9	Simulated Regional Yields of Spring Barley in the United Kingdom under Projected Climate Change. Climate, 2016, 4, 54.	2.8	24
10	Identifying key contributing root system traits to genetic diversity in field-grown cowpea (Vigna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	5.1	21
11	Systematic review of the effects of agricultural interventions on food security in northern Ghana. PLoS ONE, 2018, 13, e0203605.	2.5	20
12	Agronomic biofortification of selected underutilised solanaceae vegetables for improved dietary intake of potassium (K) in Ghana. Heliyon, 2018, 4, e00750.	3.2	17
13	Does water-saving irrigation improve the quality of fruits and vegetables? Evidence from meta-analysis. Irrigation Science, 2019, 37, 669-690.	2.8	17
14	Phenotypic Characterization of Tiger Nuts (Cyperus esculentus L.) from Major Growing Areas in Ghana. Scientific World Journal, The, 2020, 2020, 1-11.	2.1	17
15	Regional variations in potential groundwater recharge from spring barley crop fields in the UK under projected climate change. Groundwater for Sustainable Development, 2019, 8, 332-345.	4.6	12
16	Causal shoot and root system traits to variability and plasticity in juvenile cassava (Manihot) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T Plants, 2020, 26, 1799-1814.	3.1	9
17	Root hair and rhizosheath traits contribute to genetic variation and phosphorus use efficiency in cowpea (Vigna unguiculata (L.) Walp). Rhizosphere, 2022, 21, 100463.	3.0	9
18	Soil-Transmitted Helminths in Top Soils Used for Horticultural Purposes in Cape Coast, Ghana. Journal of Environmental and Public Health, 2018, 2018, 1-5.	0.9	8

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19	A scanner-based rhizobox system enabling the quantification of root system development and response of Brassica rapa seedlings to external P availability. Plant Root, 2017, 11, 16-32.	0.3	7
20	Spatial assessment of sugarcane (Saccharurn spp. L.) production to feed the Komenda Sugar Factory, Ghana. Heliyon, 2018, 4, e00903.	3.2	7
21	Farmersâ€™ perceptions on varietal diversity, trait preferences and diversity management of bush yam (Dioscorea praehensilis Benth.) in Ghana. Scientific African, 2021, 12, e00808.	1.5	7
22	Ghanaians Might Be at Risk of Excess Dietary Intake of Potassium Based on Food Supply Data. Journal of Nutrition and Metabolism, 2018, 2018, 1-9.	1.8	5
23	Response of chilli pepper to different irrigation schedules and mulching technologies in semi-arid environments. Journal of Agriculture and Food Research, 2021, 6, 100222.	2.5	5
24	Virtual water and phosphorus gains through rice imports to Ghana: implications for food security policy. International Journal of Agricultural Resources, Governance and Ecology, 2014, 10, 374.	0.0	4
25	Effects of rooting media on root growth and morphology of Brassica rapa seedlings. South African Journal of Plant and Soil, 2016, 33, 219-227.	1.1	4
26	The use of oil palm empty fruit bunches as a soil amendmentto improve growth and yield of crops. A meta-analysis. Agronomy for Sustainable Development, 2022, 42, 1.	5.3	4
27	Urinary Pesticide Residual Levels and Acute Respiratory Infections in Children Under 5â€‰Years of Age: Findings From the Offinso North Farm Health Study. Environmental Health Insights, 2022, 16, 117863022210944.	1.7	4
28	Demucilaging Freshly Stored Seeds of Cocoa (Theobroma cacao L.) Improves Seedling Emergence and Growth. Journal of Botany, 2017, 2017, 1-10.	1.2	3
29	The search for yield predictors for mature field-grown plants from juvenile pot-grown cassava (Manihot esculenta Crantz). PLoS ONE, 2020, 15, e0232595.	2.5	3
30	Exploring the Bush yam (Dioscorea praehensilis Benth) as a Source of Agronomic and Quality Trait Genes in White Guinea yam (Dioscorea rotundata Poir) Breeding. Agronomy, 2022, 12, 55.	3.0	3
31	Ghanaians Might Be at Risk of Inadequate Dietary Intake of Potassium. Journal of Nutrition and Metabolism, 2016, 2016, 1-8.	1.8	2
32	Putting Soil Security on the Policy Agenda: Need for a Familiar Framework. Challenges, 2016, 7, 15.	1.7	2
33	Morphological diversity in purple nutsedge from four agro-ecological zones in Ghana. Heliyon, 2021, 7, e07661.	3.2	2
34	Mechanisms Underlying Root System Architecture and Gene Expression Pattern in Pearl Millet (Pennisetum glaucum). Gesunde Pflanzen, 2022, 74, 983-996.	3.0	2
35	Multifunctional Landscape Transformation of Urban Idle Spaces for Climate Resilience in Sub-Saharan Africa. , 2021, , 2193-2219.		1
36	Modelling spatio-temporal heterogeneities in groundwater quality in Ghana: a multivariate chemometric approach. Journal of Water and Health, 2017, 15, 658-672.	2.6	0

#	Article	IF	Citations
37	Multifunctional Landscape Transformation of Urban Idle Spaces for Climate Resilience in Sub-Saharan Africa. , 2021, , 1-27.		0
38	A Meta-Analysis of Modifications of Root System Traits of Crop Plants to Potassium (K) Deprivation. , 0, , .		0