Robert Asiedu

List of Publications by Year
in descending order

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104 papers	2,459 citations	218677 26 h-index	289244 40 g-index
111 all docs	111 docs citations	111 times ranked	1301 citing authors

#	Article	IF	Citations
1	Transforming Yam Seed Systems in West Africa. , 2022, , 421-451.		1
2	Identification of QTLs Controlling Resistance to Anthracnose Disease in Water Yam (Dioscorea alata). Genes, 2022, 13, 347.	2.4	4
3	Cross compatibility in intraspecific and interspecific hybridization in yam (Dioscorea spp.). Scientific Reports, 2022, 12, 3432.	3.3	14
4	Chromosome evolution and the genetic basis of agronomically important traits in greater yam. Nature Communications, 2022, 13, 2001.	12.8	35
5	Association mapping of plant sex and cross-compatibility related traits in white Guinea yam (Dioscorea) Tj ETQq1 1 0.784314 rgBT /Ov	3.6	4
6	Genetic parameters, prediction, and selection in a white Guinea yam earlyâ€generation breeding population using pedigree information. Crop Science, 2021, 61, 1038-1051.	1.8	15
7	Simple sequence repeatâ€based miniâ€core collection for white Guinea yam (Dioscorea rotundata) germplasm. Crop Science, 2021, 61, 1268-1279.	1.8	12
8	Low Soil Nutrient Tolerance and Mineral Fertilizer Response in White Guinea Yam (Dioscorea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	3.6	15
9	Genetic parameter estimation and selection in advanced breeding population of white Guinea yam. Journal of Crop Improvement, 2021, 35, 790-815.	1.7	7
10	Genetic Diversity and Population Structure of Soybean Lines Adapted to Sub-Saharan Africa Using Single Nucleotide Polymorphism (SNP) Markers. Agronomy, 2021, 11, 604.	3.0	17
11	Optimized Protocol for In Vitro Pollen Germination in Yam (Dioscorea spp.). Plants, 2021, 10, 795.	3.5	15
12	Seed Yam Production Using High-Quality Minitubers Derived from Plants Established with Vine Cuttings. Agronomy, 2021, 11, 978.	3.0	9
13	Genome-Wide Association Studies for Sex Determination and Cross-Compatibility in Water Yam (Dioscorea alata L.). Plants, 2021, 10, 1412.	3.5	24
14	Variation in Tuber Dry Matter Content and Starch Pasting Properties of White Guinea Yam (Dioscorea) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	8
15	Cytological and Molecular Characterization for Ploidy Determination in Yams (Dioscorea spp.). Agronomy, 2021, 11, 1897.	3.0	6
16	Diversity of white Guinea yam (Dioscorea rotundataPoir.) cultivars from Benin as revealed by agro-morphological traits and SNP markers. Plant Genetic Resources: Characterisation and Utilisation, 2021, 19, 437-446.	0.8	10
17	Seed Viability, Seedling Growth and Yield in White Guinea Yam. Agronomy, 2021, 11, 2.	3.0	7
18	Yam seed system characteristics in Nigeria: Local practices, preferences, and the implications for seed system interventions. Outlook on Agriculture, 2021, 50, 455-467.	3.4	4

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19	Identification of quantitative trait nucleotides and candidate genes for tuber yield and mosaic virus tolerance in an elite population of white guinea yam (Dioscorea rotundata) using genome-wide association scan. BMC Plant Biology, 2021, 21, 552.	3.6	15
20	Population Genomics of Yams: Evolution and Domestication of Dioscorea Species. Population Genomics, 2021, , .	0.5	13
21	Review of empirical and emerging breeding methods and tools for yam (Dioscorea spp.) improvement: Status and prospects. Plant Breeding, 2020, 139, 474-497.	1.9	75
22	Genotyping-by-Sequencing to Unlock Genetic Diversity and Population Structure in White Yam (Dioscorea rotundata Poir.). Agronomy, 2020, 10, 1437.	3.0	16
23	Floral Biology and Pollination Efficiency in Yam (Dioscorea spp.). Agriculture (Switzerland), 2020, 10, 560.	3.1	23
24	Potential returns to yam research investment in sub-Saharan Africa and beyond. Outlook on Agriculture, 2020, 49, 215-224.	3.4	16
25	Identification of QTLs Controlling Resistance/Tolerance to Striga hermonthica in an Extra-Early Maturing Yellow Maize Population. Agronomy, 2020, 10, 1168.	3.0	22
26	Genome-Wide Association Analysis for Tuber Dry Matter and Oxidative Browning in Water Yam (Dioscorea alata L.). Plants, 2020, 9, 969.	3.5	27
27	Identification of QTLs for grain yield and other traits in tropical maize under Striga infestation. PLoS ONE, 2020, 15, e0239205.	2.5	14
28	Comparative assessment of genetic diversity matrices and clustering methods in white Guinea yam (Dioscorea rotundata) based on morphological and molecular markers. Scientific Reports, 2020, 10, 13191.	3.3	32
29	Genome analyses reveal the hybrid origin of the staple crop white Guinea yam (Dioscorea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2020, 117, 31987-31992.	7.1	40
30	The influence of minisett size and time of planting on the yield of seed yam (Dioscorea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	0.9	4
31	Seed yam production from whole tubers versus minisetts. Journal of Crop Improvement, 2020, 34, 858-874.	1.7	15
32	Paternity Assignment in White Guinea Yam (Dioscorea Rotundata) Half-Sib Progenies from Polycross Mating Design Using SNP Markers. Plants, 2020, 9, 527.	3.5	9
33	Upscaling cassava processing machines and products in Liberia. Croatian Journal of Food Science and Technology, 2020, 12, 20-26.	0.3	0
34	Phenotypic and molecular assessment of genetic structure and diversity in a panel of winged yam (Dioscorea alata) clones and cultivars. Scientific Reports, 2019, 9, 18221.	3.3	42
35	Spatial Multivariate Cluster Analysis for Defining Target Population of Environments in West Africa for Yam Breeding. International Journal of Applied Geospatial Research, 2019, 10, 1-30.	0.3	22
36	Assessment of heavy metals and microbial contamination of gari from Liberia. Food Science and Nutrition, 2018, 6, 62-66.	3.4	9

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37	Can Parentage Analysis Facilitate Breeding Activities in Root and Tuber Crops?. Agriculture (Switzerland), 2018, 8, 95.	3.1	15
38	Comparative Reliability of Screening Parameters for Anthracnose Resistance in Water Yam (Dioscorea alata). Plant Disease, 2017, 101, 209-216.	1.4	11
39	Genome sequencing of the staple food crop white Guinea yam enables the development of a molecular marker for sex determination. BMC Biology, 2017, 15, 86.	3.8	114
40	Effects of Policies on Yam Production and Consumption in Nigeria. Agribusiness, 2016, 32, 363-378.	3.4	1
41	Tropical cover crops for the management of the yam nematode,Scutellonema bradys. International Journal of Pest Management, 2016, 62, 85-91.	1.8	1
42	Improved propagation methods to raise the productivity of yam (Dioscorea rotundata Poir.). Food Security, 2015, 7, 823-834.	5.3	60
43	On-Farm Evaluation of Promising Dioscorea alata Genotypes in the Forest â€“ Savannah Transition Zone of Ghana. Journal of Agricultural Science, 2015, 7, .	0.2	0
44	Comparison of Physicochemical Properties of Soils under Contrasting Land Use Systems in Southwestern Nigeria. Japan Agricultural Research Quarterly, 2015, 49, 319-331.	0.4	3
45	Development of Genomic Simple Sequence Repeat Markers for Yam. Crop Science, 2015, 55, 2191-2200.	1.8	17
46	Population changes of plant-parasitic nematodes associated with cover crops following a yam (Dioscorea rotundata) crop. Tropical Plant Pathology, 2015, 40, 193-199.	1.5	2
47	Genomic Resources for Water Yam (Dioscorea alata L.): Analyses of EST-Sequences, De Novo Sequencing and GBS Libraries. PLoS ONE, 2015, 10, e0134031.	2.5	29
48	Evaluation of White yam (Dioscorea rotundata) genotypes for arbuscular mycorrhizal colonization, leaf nutrient concentrations and tuber yield under NPK fertilizer application. Journal of Plant Nutrition, 2014, 37, 658-673.	1.9	6
49	Management of Meloidogyne incognita in yam-based cropping systems with cover crops. Crop Protection, 2014, 63, 97-102.	2.1	12
50	Next-generation sequencing based genotyping, cytometry and phenotyping for understanding diversity and evolution of guinea yams. Theoretical and Applied Genetics, 2014, 127, 1783-1794.	3.6	59
51	EFFECT OF EXTRUSION VARIABLES ON EXTRUDATES PROPERTIES OF WATER YAM FLOUR - A RESPONSE SURFACE ANALYSIS. Journal of Food Processing and Preservation, 2013, 37, 456-473.	2.0	29
52	Potential health benefits of water yam (Dioscorea alata). Food and Function, 2013, 4, 1496.	4.6	27
53	Diversity of arbuscular mycorrhizal fungi in soils of yam (Dioscoreaspp.) cropping systems in four agroecologies of Nigeria. Archives of Agronomy and Soil Science, 2013, 59, 521-531.	2.6	11
54	Genetic and phenotypic diversity in a germplasm working collection of cultivated tropical yams (Dioscorea spp.). Genetic Resources and Crop Evolution, 2012, 59, 1753-1765.	1.6	38

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55	EFFECTS OF STORAGE ON THE CHEMICAL COMPOSITION AND FOOD QUALITY OF YAM. Journal of Food Processing and Preservation, 2012, 36, 438-445.	2.0	13
56	Development of mapping populations for genetic analysis in yams (Dioscorea rotundata Poir. and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	9
57	Dioscorea. , 2011, , 71-96.		15
58	Analysis of resistance to Yam mosaic virus, genus Potyvirus in white guinea yam (Dioscorea rotundata) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.3	1
59	Crops that feed the World 1. Yams. Food Security, 2010, 2, 305-315.	5.3	161
60	Ploidy levels of DioscoreaÂalata L. germplasm determined by flow cytometry. Genetic Resources and Crop Evolution, 2010, 57, 351-356.	1.6	15
61	Genetic diversity of Dioscorea dumetorum (Kunth) Pax using Amplified Fragment Length Polymorphisms (AFLP) and cpDNA. Biochemical Systematics and Ecology, 2010, 38, 320-334.	1.3	19
62	Survey of the incidence and distribution of viruses infecting yam (Dioscorea spp.) in Ghana and Togo. Annals of Applied Biology, 2010, 156, 243-251.	2.5	21
63	Yams. , 2010, , 127-148.		27
64	Extraction of DNA from Yam (Dioscorea) Leaves. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5328.	0.3	1
65	Producing Yam (Dioscorea) Seeds through Controlled Crosses. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5327.	0.3	2
66	True Yams(Dioscorea):A Biological and Evolutionary Link between Eudicots and Grasses. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo136.	0.3	23
67	Yam (Dioscorea) Husbandry: Cultivating Yams in the Field or Greenhouse. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5324-pdb.prot5324.	0.3	5
68	Post-Flask Management of Yam (Dioscorea) Plantlets. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5326.	0.3	2
69	Culturing Meristematic Tissue and Node Cuttings from Yams (Dioscorea). Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5325.	0.3	3
70	Secondary metabolite profile and phytotoxic activity of genetically distinct forms of Colletotrichum gloeosporioides from yam (Dioscorea spp.). Mycological Research, 2009, 113, 130-140.	2.5	19
71	Ploidy level studies on the Dioscorea cayenensis/Dioscorea rotundata complex core set. Euphytica, 2009, 169, 319-326.	1.2	14
72	Flowering intensity in white yam (Dioscorea rotundata). Journal of Agricultural Science, 2009, 147, 469-477.	1.3	13

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73	Sequence diversity among badnavirus isolates infecting yam (Dioscorea spp.) in Ghana, Togo, Benin and Nigeria. Archives of Virology, 2008, 153, 2263-2272.	2.1	26
74	Estimating market demand for fresh yam characteristics using contingent valuation: implications for crop breeding and production choices. Agricultural Economics (United Kingdom), 2008, 39, 349-363.	3.9	10
75	Genomics of Yams, a Common Source of Food and Medicine in the Tropics. , 2008, , 549-570.		30
76	TEXTURE PROFILE ANALYSIS APPLIED TO POUNDED YAM. Journal of Texture Studies, 2007, 38, 355-372.	2.5	19
77	Severity of anthracnose and virus diseases of water yam (Dioscorea alata L.) in Nigeria I: Effects of yam genotype and date of planting. Crop Protection, 2007, 26, 1259-1265.	2.1	31
78	Phases of Dormancy in Yam Tubers (Dioscorea rotundata). Annals of Botany, 2006, 97, 497-504.	2.9	40
79	Pathogenic and genetic variability among Colletotrichum gloeosporioides isolates from different yam hosts in the agroecological zones in Nigeria. Journal of Phytopathology, 2006, 154, 51-61.	1.0	26
80	Pasting characteristics of fresh yams (Dioscorea spp.) as indicators of textural quality in a major food product â€“ â€˜pounded yamâ€™. Food Chemistry, 2006, 99, 663-669.	8.2	46
81	MICROSTRUCTURE OF BOILED YAM (DIOSCOREA SPP.) AND ITS IMPLICATION FOR ASSESSMENT OF TEXTURAL QUALITY. Journal of Texture Studies, 2005, 36, 324-332.	2.5	14
82	SENSORY TEXTURE PROFILING AND DEVELOPMENT OF STANDARD RATING SCALES FOR POUNDED YAM. Journal of Texture Studies, 2005, 36, 478-488.	2.5	13
83	PCR Marker-based Analysis of Wild and Cultivated Yams (Dioscorea spp.) in Nigeria: Genetic Relationships and Implications for ex situ Conservation. Genetic Resources and Crop Evolution, 2005, 52, 755-763.	1.6	18
84	Responses of white yam (Dioscorea rotundata) cultivars to inoculation with three viruses. Plant Pathology, 2004, 53, 141-147.	2.4	22
85	Identification of resistance to Yam mosaic virus (YMV), genus Potyvirus in white Guinea yam (Dioscorea rotundata Poir.). Field Crops Research, 2004, 89, 97-105.	5.1	17
86	Genetic diversity of organoleptic properties in water yam (Dioscorea alata L). Journal of the Science of Food and Agriculture, 2003, 83, 858-865.	3.5	33
87	INDUCTION OF SPROUTING IN DORMANT YAM (DIOSCOREA SPP.) TUBERS WITH INHIBITORS OF GIBBERELLINS. Experimental Agriculture, 2003, 39, 209-217.	0.9	12
88	Problems and Perspectives of Yam-Based Cropping Systems in Africa. The Journal of Crop Improvement: Innovations in Practiceory and Research, 2003, 9, 531-558.	0.4	19
89	A genetic linkage map of Guinea yam (Dioscorea rotundata Poir.) based on AFLP markers. Theoretical and Applied Genetics, 2002, 105, 716-725.	3.6	55
90	A genetic linkage map of water yam (Dioscorea alata L.) based on AFLP markers and QTL analysis for anthracnose resistance. Theoretical and Applied Genetics, 2002, 105, 726-735.	3.6	69

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91	Identification and potential use of RAPD markers linked to Yam mosaic virus resistance in white yam (Dioscorea rotundatd). Annals of Applied Biology, 2002, 140, 163-169.	2.5	28
92	Identification and application of RAPD markers for anthracnose resistance in water yam (Dioscorea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	30
93	Ploidy analysis in water yam, Dioscorea alata L. germplasm. Euphytica, 2002, 128, 225-230.	1.2	36
94	Inheritance of resistance in water yam (Dioscorea alata) to anthracnose (Colletotrichum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (g	3.6	42
95	Inheritance of resistance to Yam mosaic virus, genus Potyvirus, in white yam (Dioscorea rotundata). Theoretical and Applied Genetics, 2001, 103, 1196-2000.	3.6	38
96	DORMANCY IN YAMS. Experimental Agriculture, 2001, 37, 147-181.	0.9	44
97	Title is missing!. Genetic Resources and Crop Evolution, 2000, 47, 371-383.	1.6	37
98	Title is missing!. Genetic Resources and Crop Evolution, 2000, 47, 619-625.	1.6	36
99	Title is missing!. Genetic Resources and Crop Evolution, 1999, 46, 371-388.	1.6	73
100	Underresearched Tropical Food Crops: Cowpea, Banana and Plantain, and Yams. Plant Gene Research, 1999, , 187-216.	0.4	3
101	Variability of chloroplast DNA and nuclear ribosomal DNA in cassava (Manihot esculenta Crantz) and its wild relatives. Theoretical and Applied Genetics, 1994, 89, 719-727.	3.6	46
102	Spontaneous Somatic Tetraploids in Cassava.. Breeding Science, 1992, 42, 303-308.	0.2	8
103	Resistance toHeterodera avenue in the rye genome of triticale. Theoretical and Applied Genetics, 1990, 79, 331-336.	3.6	49
104	Tetraploids, triploids, and 2n pollen from diploid interspecific crosses with cassava. Theoretical and Applied Genetics, 1990, 79, 433-439.	3.6	79