

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	Crops that feed the World 1. Yams. Food Security, 2010, 2, 305-315.	5.3	161
2	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
3	Tetraploids, triploids, and 2n pollen from diploid interspecific crosses with cassava. Theoretical and Applied Genetics, 1990, 79, 433-439.	3.6	79
4	Review of empirical and emerging breeding methods and tools for yam (<i>Dioscorea</i> spp.) improvement: Status and prospects. Plant Breeding, 2020, 139, 474-497.	1.9	75
5	Title is missing!. Genetic Resources and Crop Evolution, 1999, 46, 371-388.	1.6	73
6	A genetic linkage map of water yam (<i>Dioscorea alata</i> L.) based on AFLP markers and QTL analysis for anthracnose resistance. Theoretical and Applied Genetics, 2002, 105, 726-735.	3.6	69
7	Improved propagation methods to raise the productivity of yam (<i>Dioscorea rotundata</i> Poir.). Food Security, 2015, 7, 823-834.	5.3	60
8	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
9	A genetic linkage map of Guinea yam (<i>Dioscorea rotundata</i> Poir.) based on AFLP markers. Theoretical and Applied Genetics, 2002, 105, 716-725.	3.6	55
10	Resistance to <i>Heterodera avenae</i> in the rye genome of triticale. Theoretical and Applied Genetics, 1990, 79, 331-336.	3.6	49
11	Variability of chloroplast DNA and nuclear ribosomal DNA in cassava (<i>Manihot esculenta</i> Crantz) and its wild relatives. Theoretical and Applied Genetics, 1994, 89, 719-727.	3.6	46
12	Pasting characteristics of fresh yams (<i>Dioscorea</i> spp.) as indicators of textural quality in a major food product "pounded yam". Food Chemistry, 2006, 99, 663-669.	8.2	46
13	DORMANCY IN YAMS. Experimental Agriculture, 2001, 37, 147-181.	0.9	44
14	Inheritance of resistance in water yam (<i>Dioscorea alata</i>) to anthracnose (<i>Colletotrichum</i>)	3.8	42
15	Phenotypic and molecular assessment of genetic structure and diversity in a panel of winged yam (<i>Dioscorea alata</i>) clones and cultivars. Scientific Reports, 2019, 9, 18221.	3.3	42
16	Phases of Dormancy in Yam Tubers (<i>Dioscorea rotundata</i>). Annals of Botany, 2006, 97, 497-504.	2.9	40
17	Genome analyses reveal the hybrid origin of the staple crop white Guinea yam (<i>Dioscorea</i>)	7.1	40
18	Inheritance of resistance to Yam mosaic virus, genus Potyvirus, in white yam (<i>Dioscorea rotundata</i>). Theoretical and Applied Genetics, 2001, 103, 1196-2000.	3.6	38

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19	Genetic and phenotypic diversity in a germplasm working collection of cultivated tropical yams (<i>Dioscorea</i> spp.). <i>Genetic Resources and Crop Evolution</i> , 2012, 59, 1753-1765.	1.6	38
20	Title is missing!. <i>Genetic Resources and Crop Evolution</i> , 2000, 47, 371-383.	1.6	37
21	Title is missing!. <i>Genetic Resources and Crop Evolution</i> , 2000, 47, 619-625.	1.6	36
22	Ploidy analysis in water yam, <i>Dioscorea alata</i> L. germplasm. <i>Euphytica</i> , 2002, 128, 225-230.	1.2	36
23	Chromosome evolution and the genetic basis of agronomically important traits in greater yam. <i>Nature Communications</i> , 2022, 13, 2001.	12.8	35
24	Genetic diversity of organoleptic properties in water yam (<i>Dioscorea alata</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2003, 83, 858-865.	3.5	33
25	Comparative assessment of genetic diversity matrices and clustering methods in white Guinea yam (<i>Dioscorea rotundata</i>) based on morphological and molecular markers. <i>Scientific Reports</i> , 2020, 10, 13191.	3.3	32
26	Severity of anthracnose and virus diseases of water yam (<i>Dioscorea alata</i> L.) in Nigeria I: Effects of yam genotype and date of planting. <i>Crop Protection</i> , 2007, 26, 1259-1265.	2.1	31
27	Identification and application of RAPD markers for anthracnose resistance in water yam (<i>Dioscorea</i>) Tj ETQq1 1 0.784314 rgBT/Overl 2.5 30	2.5	30
28	Genomics of Yams, a Common Source of Food and Medicine in the Tropics. , 2008, , 549-570.		30
29	EFFECT OF EXTRUSION VARIABLES ON EXTRUDATES PROPERTIES OF WATER YAM FLOUR - A RESPONSE SURFACE ANALYSIS. <i>Journal of Food Processing and Preservation</i> , 2013, 37, 456-473.	2.0	29
30	Genomic Resources for Water Yam (<i>Dioscorea alata</i> L.): Analyses of EST-Sequences, De Novo Sequencing and GBS Libraries. <i>PLoS ONE</i> , 2015, 10, e0134031.	2.5	29
31	Identification and potential use of RAPD markers linked to Yam mosaic virus resistance in white yam (<i>Dioscorea rotundata</i>). <i>Annals of Applied Biology</i> , 2002, 140, 163-169.	2.5	28
32	Potential health benefits of water yam (<i>Dioscorea alata</i>). <i>Food and Function</i> , 2013, 4, 1496.	4.6	27
33	Genome-Wide Association Analysis for Tuber Dry Matter and Oxidative Browning in Water Yam (<i>Dioscorea alata</i> L.). <i>Plants</i> , 2020, 9, 969.	3.5	27
34	Yams. , 2010, , 127-148.		27
35	Pathogenic and genetic variability among <i>Colletotrichum gloeosporioides</i> isolates from different yam hosts in the agroecological zones in Nigeria. <i>Journal of Phytopathology</i> , 2006, 154, 51-61.	1.0	26
36	Sequence diversity among badnavirus isolates infecting yam (<i>Dioscorea</i> spp.) in Ghana, Togo, Benin and Nigeria. <i>Archives of Virology</i> , 2008, 153, 2263-2272.	2.1	26

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37	Genome-Wide Association Studies for Sex Determination and Cross-Compatibility in Water Yam (<i>Dioscorea alata</i> L.). <i>Plants</i> , 2021, 10, 1412.	3.5	24
38	True Yams (<i>Dioscorea</i>): A Biological and Evolutionary Link between Eudicots and Grasses. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.emo136.	0.3	23
39	Floral Biology and Pollination Efficiency in Yam (<i>Dioscorea</i> spp.). <i>Agriculture (Switzerland)</i> , 2020, 10, 560.	3.1	23
40	Responses of white yam (<i>Dioscorea rotundata</i>) cultivars to inoculation with three viruses. <i>Plant Pathology</i> , 2004, 53, 141-147.	2.4	22
41	Spatial Multivariate Cluster Analysis for Defining Target Population of Environments in West Africa for Yam Breeding. <i>International Journal of Applied Geospatial Research</i> , 2019, 10, 1-30.	0.3	22
42	Identification of QTLs Controlling Resistance/Tolerance to <i>Striga hermonthica</i> in an Extra-Early Maturing Yellow Maize Population. <i>Agronomy</i> , 2020, 10, 1168.	3.0	22
43	Survey of the incidence and distribution of viruses infecting yam (<i>Dioscorea</i> spp.) in Ghana and Togo. <i>Annals of Applied Biology</i> , 2010, 156, 243-251.	2.5	21
44	Problems and Perspectives of Yam-Based Cropping Systems in Africa. <i>The Journal of Crop Improvement: Innovations in Practice and Research</i> , 2003, 9, 531-558.	0.4	19
45	TEXTURE PROFILE ANALYSIS APPLIED TO POUNDED YAM. <i>Journal of Texture Studies</i> , 2007, 38, 355-372.	2.5	19
46	Secondary metabolite profile and phytotoxic activity of genetically distinct forms of <i>Colletotrichum gloeosporioides</i> from yam (<i>Dioscorea</i> spp.). <i>Mycological Research</i> , 2009, 113, 130-140.	2.5	19
47	Genetic diversity of <i>Dioscorea dumetorum</i> (Kunth) Pax using Amplified Fragment Length Polymorphisms (AFLP) and cpDNA. <i>Biochemical Systematics and Ecology</i> , 2010, 38, 320-334.	1.3	19
48	PCR Marker-based Analysis of Wild and Cultivated Yams (<i>Dioscorea</i> spp.) in Nigeria: Genetic Relationships and Implications for ex situ Conservation. <i>Genetic Resources and Crop Evolution</i> , 2005, 52, 755-763.	1.6	18
49	Identification of resistance to Yam mosaic virus (YMV), genus Potyvirus in white Guinea yam (<i>Dioscorea rotundata</i> Poir.). <i>Field Crops Research</i> , 2004, 89, 97-105.	5.1	17
50	Development of Genomic Simple Sequence Repeat Markers for Yam. <i>Crop Science</i> , 2015, 55, 2191-2200.	1.8	17
51	Genetic Diversity and Population Structure of Soybean Lines Adapted to Sub-Saharan Africa Using Single Nucleotide Polymorphism (SNP) Markers. <i>Agronomy</i> , 2021, 11, 604.	3.0	17
52	Genotyping-by-Sequencing to Unlock Genetic Diversity and Population Structure in White Yam (<i>Dioscorea rotundata</i> Poir.). <i>Agronomy</i> , 2020, 10, 1437.	3.0	16
53	Potential returns to yam research investment in sub-Saharan Africa and beyond. <i>Outlook on Agriculture</i> , 2020, 49, 215-224.	3.4	16
54	Ploidy levels of <i>Dioscorea alata</i> L. germplasm determined by flow cytometry. <i>Genetic Resources and Crop Evolution</i> , 2010, 57, 351-356.	1.6	15

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55	Dioscorea. , 2011, , 71-96.		15
56	Can Parentage Analysis Facilitate Breeding Activities in Root and Tuber Crops?. Agriculture (Switzerland), 2018, 8, 95.	3.1	15
57	Seed yam production from whole tubers versus minisetts. Journal of Crop Improvement, 2020, 34, 858-874.	1.7	15
58	Genetic parameters, prediction, and selection in a white Guinea yam early generation breeding population using pedigree information. Crop Science, 2021, 61, 1038-1051.	1.8	15
59	Low Soil Nutrient Tolerance and Mineral Fertilizer Response in White Guinea Yam (Dioscorea) Tj ETQq1 1 0.784314,rgBT /Overlock 10	3.8	15
60	Optimized Protocol for In Vitro Pollen Germination in Yam (Dioscorea spp.). Plants, 2021, 10, 795.	3.5	15
61	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
62	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
63	Ploidy level studies on the Dioscorea cayenensis/Dioscorea rotundata complex core set. Euphytica, 2009, 169, 319-326.	1.2	14
64	Identification of QTLs for grain yield and other traits in tropical maize under Striga infestation. PLoS ONE, 2020, 15, e0239205.	2.5	14
65	Cross compatibility in intraspecific and interspecific hybridization in yam (Dioscorea spp.). Scientific Reports, 2022, 12, 3432.	3.3	14
66	SENSORY TEXTURE PROFILING AND DEVELOPMENT OF STANDARD RATING SCALES FOR POUNDED YAM. Journal of Texture Studies, 2005, 36, 478-488.	2.5	13
67	Flowering intensity in white yam (Dioscorea rotundata). Journal of Agricultural Science, 2009, 147, 469-477.	1.3	13
68	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
69	Population Genomics of Yams: Evolution and Domestication of Dioscorea Species. Population Genomics, 2021, , .	0.5	13
70	INDUCTION OF SPROUTING IN DORMANT YAM (DIOSCOREA SPP.) TUBERS WITH INHIBITORS OF GIBBERELLINS. Experimental Agriculture, 2003, 39, 209-217.	0.9	12
71	Management of Meloidogyne incognita in yam-based cropping systems with cover crops. Crop Protection, 2014, 63, 97-102.	2.1	12
72	Simple sequence repeat-based mini-core collection for white Guinea yam (Dioscorea rotundata) germplasm. Crop Science, 2021, 61, 1268-1279.	1.8	12

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73	Diversity of arbuscular mycorrhizal fungi in soils of yam (<i>Dioscorea</i> spp.) cropping systems in four agroecologies of Nigeria. <i>Archives of Agronomy and Soil Science</i> , 2013, 59, 521-531.	2.6	11
74	Comparative Reliability of Screening Parameters for Anthracnose Resistance in Water Yam (<i>Dioscorea alata</i>). <i>Plant Disease</i> , 2017, 101, 209-216.	1.4	11
75	Estimating market demand for fresh yam characteristics using contingent valuation: implications for crop breeding and production choices. <i>Agricultural Economics (United Kingdom)</i> , 2008, 39, 349-363.	3.9	10
76	Diversity of white Guinea yam (<i>Dioscorea rotundata</i> Poir.) cultivars from Benin as revealed by agro-morphological traits and SNP markers. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2021, 19, 437-446.	0.8	10
77	Development of mapping populations for genetic analysis in yams (<i>Dioscorea rotundata</i> Poir. and) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 142 Td	0.6	9
78	Assessment of heavy metals and microbial contamination of <i>gari</i> from Liberia. <i>Food Science and Nutrition</i> , 2018, 6, 62-66.	3.4	9
79	Paternity Assignment in White Guinea Yam (<i>Dioscorea Rotundata</i>) Half-Sib Progenies from Polycross Mating Design Using SNP Markers. <i>Plants</i> , 2020, 9, 527.	3.5	9
80	Seed Yam Production Using High-Quality Minitubers Derived from Plants Established with Vine Cuttings. <i>Agronomy</i> , 2021, 11, 978.	3.0	9
81	Variation in Tuber Dry Matter Content and Starch Pasting Properties of White Guinea Yam (<i>Dioscorea</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 142 Td	3.0	9
82	Spontaneous Somatic Tetraploids in Cassava.. <i>Breeding Science</i> , 1992, 42, 303-308.	0.2	8
83	Genetic parameter estimation and selection in advanced breeding population of white Guinea yam. <i>Journal of Crop Improvement</i> , 2021, 35, 790-815.	1.7	7
84	Seed Viability, Seedling Growth and Yield in White Guinea Yam. <i>Agronomy</i> , 2021, 11, 2.	3.0	7
85	Evaluation of White yam (<i>Dioscorea rotundata</i>) genotypes for arbuscular mycorrhizal colonization, leaf nutrient concentrations and tuber yield under NPK fertilizer application. <i>Journal of Plant Nutrition</i> , 2014, 37, 658-673.	1.9	6
86	Cytological and Molecular Characterization for Ploidy Determination in Yams (<i>Dioscorea</i> spp.). <i>Agronomy</i> , 2021, 11, 1897.	3.0	6
87	Yam (<i>Dioscorea</i>) Husbandry: Cultivating Yams in the Field or Greenhouse. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5324-pdb.prot5324.	0.3	5
88	The influence of miniset size and time of planting on the yield of seed yam (<i>Dioscorea</i>) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 142 Td	0.9	4
89	Yam seed system characteristics in Nigeria: Local practices, preferences, and the implications for seed system interventions. <i>Outlook on Agriculture</i> , 2021, 50, 455-467.	3.4	4
90	Identification of QTLs Controlling Resistance to Anthracnose Disease in Water Yam (<i>Dioscorea alata</i>). <i>Genes</i> , 2022, 13, 347.	2.4	4

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91	Association mapping of plant sex and cross-compatibility related traits in white Guinea yam (<i>Dioscorea</i>) Tj ETQq1 1,0,784314,rgBT /Over	3.6	4
92	Culturing Meristematic Tissue and Node Cuttings from Yams (<i>Dioscorea</i>). Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5325.	0.3	3
93	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
94	Underresearched Tropical Food Crops: Cowpea, Banana and Plantain, and Yams. Plant Gene Research, 1999, , 187-216.	0.4	3
95	Producing Yam (<i>Dioscorea</i>) Seeds through Controlled Crosses. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5327.	0.3	2
96	Post-Flask Management of Yam (<i>Dioscorea</i>) Plantlets. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5326.	0.3	2
97	Population changes of plant-parasitic nematodes associated with cover crops following a yam (<i>Dioscorea rotundata</i>) crop. Tropical Plant Pathology, 2015, 40, 193-199.	1.5	2
98	Extraction of DNA from Yam (<i>Dioscorea</i>) Leaves. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5328.	0.3	1
99	Effects of Policies on Yam Production and Consumption in Nigeria. Agribusiness, 2016, 32, 363-378.	3.4	1
100	Tropical cover crops for the management of the yam nematode, <i>Scutellonema bradys</i> . International Journal of Pest Management, 2016, 62, 85-91.	1.8	1
101	Analysis of resistance to Yam mosaic virus, genus Potyvirus in white guinea yam (<i>Dioscorea rotundata</i>) Tj ETQq1 1,0,784314,rgBT /Over	0.3	1
102	Transforming Yam Seed Systems in West Africa. , 2022, , 421-451.		1
103	On-Farm Evaluation of Promising <i>Dioscorea alata</i> Genotypes in the Forest “Savannah Transition Zone of Ghana. Journal of Agricultural Science, 2015, 7, .	0.2	0
104	Upscaling cassava processing machines and products in Liberia. Croatian Journal of Food Science and Technology, 2020, 12, 20-26.	0.3	0