G Craig Yencho

List of Publications by Year
in descending order

96	3,350	159585 30	168389 53
papers	citations	h-index	g-index

105	105	105	3015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antioxidant activities, phenolic and Î²-carotene contents of sweet potato genotypes with varying flesh colours. Food Chemistry, 2007, 103, 829-838.	8.2	506
2	Genome sequences of two diploid wild relatives of cultivated sweetpotato reveal targets for genetic improvement. Nature Communications, 2018, 9, 4580.	12.8	181
3	Characterization of Anthocyanins and Anthocyanidins in Purple-Fleshed Sweetpotatoes by HPLC-DAD/ESI-MS/MS. Journal of Agricultural and Food Chemistry, 2010, 58, 404-410.	5.2	139
4	Phytochemical changes in phenolics, anthocyanins, ascorbic acid, and carotenoids associated with sweetpotato storage and impacts on bioactive properties. Food Chemistry, 2014, 145, 717-724.	8.2	139
5	Conventional breeding, marker-assisted selection, genomic selection and inbreeding in clonally propagated crops: a case study for cassava. Theoretical and Applied Genetics, 2015, 128, 1647-1667.	3.6	130
6	Genetic Variance Partitioning and Genome-Wide Prediction with Allele Dosage Information in Autotetraploid Potato. Genetics, 2018, 209, 77-87.	2.9	117
7	Applications of Tagging and Mapping Insect Resistance Loci in Plants. Annual Review of Entomology, 2000, 45, 393-422.	11.8	110
8	Identification of quantitative trait loci for dry-matter, starch, and Î²-carotene content in sweetpotato. Molecular Breeding, 2011, 28, 201-216.	2.1	84
9	Development of a genetic linkage map and identification of homologous linkage groups in sweetpotato using multiple-dose AFLP markers. Molecular Breeding, 2008, 21, 511-532.	2.1	77
10	Phased, chromosome-scale genome assemblies of tetraploid potato reveal a complex genome, transcriptome, and predicted proteome landscape underpinning genetic diversity. Molecular Plant, 2022, 15, 520-536.	8.3	72
11	Pressurized liquid extraction and quantification of anthocyanins in purple-fleshed sweet potato genotypes. Journal of Food Composition and Analysis, 2012, 26, 96-103.	3.9	69
12	Hydrolysis and fermentation of sweetpotatoes for production of fermentable sugars and ethanol. Industrial Crops and Products, 2013, 42, 527-537.	5.2	68
13	Unraveling the Hexaploid Sweetpotato Inheritance Using Ultra-Dense Multilocus Mapping. G3: Genes, Genomes, Genetics, 2020, 10, 281-292.	1.8	65
14	Quantitative trait loci and differential gene expression analyses reveal the genetic basis for negatively associated Î²-carotene and starch content in hexaploid sweetpotato [Ipomoea batatas (L.) Lam.]. Theoretical and Applied Genetics, 2020, 133, 23-36.	3.6	59
15	Distributions, ex situ conservation priorities, and genetic resource potential of crop wild relatives of sweetpotato [Ipomoea batatas (L.) Lam., I. series Batatas]. Frontiers in Plant Science, 2015, 6, 251.	3.6	57
16	Genetic Diversity and Population Structure of the USDA Sweetpotato (Ipomoea batatas) Germplasm Collections Using GBSpoly. Frontiers in Plant Science, 2018, 9, 1166.	3.6	56
17	QTL mapping of foliar glycoalkaloid aglycones in Solanum tuberosumÃ—S. berthaultii potato progenies: quantitative variation and plant secondary metabolism. Theoretical and Applied Genetics, 1998, 97, 563-574.	3.6	49
18	Development and Validation of a Near-Infrared Spectroscopy Method for the Prediction of Acrylamide Content in French-Fried Potato. Journal of Agricultural and Food Chemistry, 2016, 64, 1850-1860.	5.2	47

#	Article	IF	Citations
19	â€˜NASPOT 7â€™, â€˜NASPOT 8â€™, â€˜NASPOT 9 Oâ€™, â€˜NASPOT 10 Oâ€™, and â€˜Dimbuka-Bukululaâ€™ Sweetpotato. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 828-832.	1.0	46
20	â€˜Covingtonâ€™ Sweetpotato. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 1911-1914.	1.0	45
21	Glandular trichomes of Solanum berthaultii alter host preference of the Colorado potato Beetle, Leptinotarsa decemlineata. Entomologia Experimentalis Et Applicata, 1994, 70, 217-225.	1.4	43
22	Resistance to Sweetpotato Chlorotic Stunt Virus and Sweetpotato Feathery Mottle Virus Is Mediated by Two Separate Recessive Genes in Sweetpotato. Journal of the American Society for Horticultural Science, 2002, 127, 798-806.	1.0	43
23	Multiple QTL Mapping in Autopolyploids: A Random-Effect Model Approach with Application in a Hexaploid Sweetpotato Full-Sib Population. Genetics, 2020, 215, 579-595.	2.9	42
24	Genetic Variation for Potato Tuber Micronutrient Content and Implications for Biofortification of Potatoes to Reduce Micronutrient Malnutrition. American Journal of Potato Research, 2012, 89, 192-198.	0.9	41
25	Diallel analysis of sweetpotatoes for resistance to sweetpotato virus disease. Euphytica, 2002, 128, 237-248.	1.2	40
26	Combining ability and heterosis for yield and drought tolerance traits under managed drought stress in sweetpotato. Euphytica, 2015, 201, 423-440.	1.2	37
27	Sweetpotato (Ipomoea batatas L.). , 2017, , 181-218.		37
28	Linkage Mapping and QTL Analysis of Agronomic Traits in Tetraploid Potato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (	1.8	35
29	QTL mapping of internal heat necrosis in tetraploid potato. Theoretical and Applied Genetics, 2011, 122, 129-142.	3.6	35
30	Leaf surface extracts ofSolanum berthaultii hawkes deter colorado potato beetle feeding. Journal of Chemical Ecology, 1994, 20, 991-1007.	1.8	32
31	â€˜NASPOT 11â€™, a Sweetpotato Cultivar Bred by a Participatory Plant-breeding Approach in Uganda. Hortscience: A Publication of the American Society for Hortcultural Science, 2011, 46, 317-321.	1.0	32
32	â€˜NASPOT 12 Oâ€™ and â€˜NASPOT 13 Oâ€™ Sweetpotato. Hortscience: A Publication of the American Society for Hortcultural Science, 2016, 51, 291-295.	1.0	32
33	Molecular markers locate genes for resistance to the Colorado potato beetle, Leptinotarsa decemlineata, in hybrid Solanum tuberosum x S. berthaultii potato progenies. Entomologia Experimentalis Et Applicata, 1996, 81, 141-154.	1.4	31
34	Screening sweetpotato genotypes for tolerance to drought stress. Field Crops Research, 2015, 171, 11-22.	5.1	31
35	Detection of Quantitative Trait Loci and Inheritance of Root-knot Nematode Resistance in Sweetpotato. Journal of the American Society for Horticultural Science, 2008, 133, 844-851.	1.0	31
36	Segregation of leptine glycoalkaloids and resistance to Colorado potato beetle (Leptinotarsa) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T Journal of Potato Research, 2000, 77, 167-178.	0.9	29

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37	Host Reactions of Sweetpotato Genotypes to Root-knot Nematodes and Variation in Virulence of Meloidogyne incognita Populations. Hortscience: A Publication of the American Society for Hortcultural Science, 2002, 37, 1112-1116.	1.0	27
38	Chemical Constituents of Sweetpotato Genotypes in Relation to Textural Characteristics of Processed French Fries. Journal of Food Science, 2018, 83, 60-73.	3.1	26
39	Sequencing depth and genotype quality: accuracy and breeding operation considerations for genomic selection applications in autopolyploid crops. Theoretical and Applied Genetics, 2020, 133, 3345-3363.	3.6	24
40	Breeding Progress for Vitamin A, Iron and Zinc Biofortification, Drought Tolerance, and Sweetpotato Virus Disease Resistance in Sweetpotato. Frontiers in Sustainable Food Systems, 2021, 5, .	3.9	23
41	Linkage map construction and QTL analysis for internal heat necrosis in autotetraploid potato. Theoretical and Applied Genetics, 2017, 130, 2045-2056.	3.6	22
42	Internal Heat Necrosis of Potatoâ€"A Review. American Journal of Potato Research, 2008, 85, 69-76.	0.9	21
43	Simple Sequence Repeat Marker Analysis of Genetic Diversity among Progeny of a Biparental Mapping Population of Sweetpotato. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 1143-1147.	1.0	21
44	Linkage analysis and QTL mapping in a tetraploid russet mapping population of potato. BMC Genetics, 2018, 19, 87.	2.7	21
45	Temperature Effect on Skin Adhesion, Cell Wall Enzyme Activity, Lignin Content, Anthocyanins, Growth Parameters, and Periderm Histochemistry of Sweetpotato. Journal of the American Society for Horticultural Science, 2007, 132, 729-738.	1.0	21
46	Pedigree Reconstruction with Genome-Wide Markers in Potato. American Journal of Potato Research, 2017, 94, 184-190.	0.9	19
47	Starch selfâ€processing in transgenic sweet potato roots expressing a hyperthermophilic Î±â€amylase. Biotechnology Progress, 2011, 27, 351-359.	2.6	18
48	Genetic analysis and association of simple sequence repeat markers with storage root yield, dry matter, starch and Î²-carotene content in sweetpotato. Breeding Science, 2017, 67, 140-150.	1.9	18
49	Stability of Internal Heat Necrosis and Specific Gravity in Tetraploid Ã— Diploid Potatoes. Crop Science, 2003, 43, 790-796.	1.8	17
50	Efficient Evaluation of Resistance to Three Root-knot Nematode Species in Selected Sweetpotato Cultivars. Hortscience: A Publication of the American Society for Hortcultural Science, 2002, 37, 390-392.	1.0	17
51	Breedbase: a digital ecosystem for modern plant breeding. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	17
52	Root Piece Planting in Sweetpotatoâ€"A Synthesis of Previous Research and Directions for the Future. HortTechnology, 2011, 21, 703-711.	0.9	16
53	Early generation selection at multiple locations may identify potato parents that produce more widely adapted progeny. Euphytica, 2012, 186, 573-583.	1.2	15
54	Development of diagnostic SNP markers for quality assurance and control in sweetpotato [Ipomoea batatas (L.) Lam.] breeding programs. PLoS ONE, 2020, 15, e0232173.	2.5	15

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55	Use of unconventional mixed Acetone-Butanol-Ethanol solvents for anthocyanin extraction from Purple-Fleshed sweetpotatoes. Food Chemistry, 2020, 314, 125959.	8.2	14
56	Discovery of a major QTL for root-knot nematode (Meloidogyne incognita) resistance in cultivated sweetpotato (Ipomoea batatas). Theoretical and Applied Genetics, 2021, 134, 1945-1955.	3.6	14
57	Assembly of whole-chromosome pseudomolecules for polyploid plant genomes using outbred mapping populations. Nature Genetics, 2020, 52, 1256-1264.	21.4	13
58	Methodology for Inoculating Sweetpotato Virus Disease: Discovery of Tip Dieback, and Plant Recovery and Reversion in Different Clones. Plant Disease, 2013, 97, 30-36.	1.4	12
59	Segregation of Hydroxycinnamic Acid Esters Mediating Sweetpotato Weevil Resistance in Storage Roots of Sweetpotato. Frontiers in Plant Science, 2017, 8, 1011.	3.6	12
60	Inheritance of Resistance to Colletotrichum gloeosporioides and C. acutatum in Strawberry. Phytopathology, 2019, 109, 428-435.	2.2	12
61	Quantitative trait loci for polyamine content in an RFLP-mapped potato population and their relationship to tuberization. Physiologia Plantarum, 1999, 106, 210-218.	5.2	10
62	The recombination landscape and multiple QTL mapping in a Solanum tuberosum cv. â€˜Atlanticâ€™-derived F1 population. Heredity, 2021, 126, 817-830.	2.6	10
63	Computer vision approach to characterize size and shape phenotypes of horticultural crops using high-throughput imagery. Computers and Electronics in Agriculture, 2021, 182, 106011.	7.7	10
64	Economic Injury Level, Action Threshold, and a Yield-loss Model for the Pea Aphid, Acyrthosiphon pisum (Homoptera: Aphididae), on Green Peas, Pisum sativum. Journal of Economic Entomology, 1986, 79, 1681-1687.	1.8	9
65	4Ã—â€“2Ã— Potato Clones with Resistance or Susceptibility to Internal Heat Necrosis Differ in Tuber Mineral Status. Crop Science, 2006, 46, 1471-1478.	1.8	9
66	Identification of simple sequence repeat markers for sweetpotato weevil resistance. Euphytica, 2017, 213, 1.	1.2	9
67	Selection of Simple Sequence Repeat Markers Associated with Inheritance of Sweetpotato Virus Disease Resistance in Sweetpotato. Crop Science, 2017, 57, 1421-1430.	1.8	9
68	ngsComposer: an automated pipeline for empirically based NGS data quality filtering. Briefings in Bioinformatics, 2021, 22, .	6.5	9
69	Linkage and QTL mapping for tuber shape and specific gravity in a tetraploid mapping population of potato representing the russet market class. BMC Plant Biology, 2021, 21, 507.	3.6	9
70	Assessment of the potential of wild Ipomoea spp. for the improvement of drought tolerance in cultivated sweetpotato Ipomoea batatas (L.) Lam. Crop Science, 2021, 61, 234-249.	1.8	8
71	Sweetpotato Root Development Influences Susceptibility to Black Rot Caused by the Fungal Pathogen Ceratocystis fimbriata. Phytopathology, 2021, 111, 1660-1669.	2.2	8
72	(2786) Proposal to change the conserved type of Ipomoea, nom. cons. (Convolvulaceae). Taxon, 2020, 69, 1369-1371.	0.7	8

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73	Plant cell calciumâ€rich environment enhances thermostability of recombinantly produced Î±â€amylase from the hyperthermophilic bacterium Thermotoga maritime. Biotechnology and Bioengineering, 2009, 104, 947-956.	3.3	7
74	Combining Ability of Sweetpotato Germplasm for Yield, Dry Matter Content, and Anthocyanin Production. Journal of the American Society for Horticultural Science, 2015, 140, 272-279.	1.0	7
75	Genetic Covariance of Environments in the Potato National Chip Processing Trial. Crop Science, 2019, 59, 107-114.	1.8	6
76	Assessing Rate-Reducing Foliar Resistance to Anthracnose Crown Rot and Fruit Rot in Strawberry. Plant Disease, 2020, 104, 398-407.	1.4	6
77	Behavior of Pyrethroid-Susceptible and -Resistant Heliothis Virescens (F.) (Lepidoptera: Noctuidae) Larvae on Cotton Treated with Insecticides. Journal of Economic Entomology, 1992, 85, 2058-2063.	1.8	5
78	RAPD Markers Linked to Late Blight Resistance in Tomato. Nepal Journal of Science and Technology, 2013, 14, 1-14.	0.2	5
79	Elkton: A New Potato Variety with Resistance to Internal Heat Necrosis and Hollow Heart and Suitable for Chipping Directly from the Field in the Southern United States. American Journal of Potato Research, 2014, 91, 269-276.	0.9	5
80	Adaptability of a U.S. purple-fleshed sweetpotato breeding population in Uganda. Australian Journal of Crop Science, 2019, 13, 17-25.	0.3	5
81	Screening Sweetpotato Genotypes for Resistance to a North Carolina Isolate of Meloidogyne enterolobii. Plant Disease, 2021, 105, 1101-1107.	1.4	5
82	A Winâ€“Win Situation: Performance and Adaptability of Petite Sweetpotato Production in a Temperate Region. Horticulturae, 2022, 8, 172.	2.8	5
83	Sweetpotato Grown from Root Pieces Displays a Significant Genotype Ã— Environment Interaction and Yield Instability. Hortscience: A Publication of the American Society for Hortcultural Science, 2014, 49, 984-990.	1.0	4
84	Skin adhesion in sweetpotato and its lack of relationship to polygalacturonase and pectinmethylesterase during storage. Postharvest Biology and Technology, 2004, 32, 183-192.	6.0	3
85	Quantitative Trait Locus Mapping for Common Scab Resistance in a Tetraploid Potato Full-Sib Population. Plant Disease, 2021, 105, 3048-3054.	1.4	3
86	An Interactive Online Database for Potato Varieties Evaluated in the Eastern United States. HortTechnology, 2010, 20, 250-256.	0.9	3
87	Amey: A multipurpose, russet-skinned potato cultivar for the Eastern United States. American Journal of Potato Research, 2001, 78, 175-181.	0.9	2
88	Peter Wilcox: a New Purple-Skin, Yellow-Flesh Fresh Market Potato Cultivar with Moderate Resistance to Powdery Scab. American Journal of Potato Research, 2015, 92, 573-581.	0.9	2
89	Internal defect scanning of sweetpotatoes using interactance spectroscopy. PLoS ONE, 2021, 16, e0246872.	2.5	2
90	GROWER-PARTICIPATORY SWEETPOTATO BREEDING EFFORTS IN NORTH CAROLINA. Acta Horticulturae, 2002, , 69-76.	0.2	2

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91	Investigating Parentage and Hybridity of Three Azaleodendrons Using Amplified Fragment Length Polymorphism Analysis. Hortscience: A Publication of the American Society for Hortcultural Science, 2007, 42, 740-743.	1.0	2
92	The Carbohydrate Yield of Sweetpotato (Ipomoea batatas) Grown from Slips and Root Pieces in North Carolina. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 1610-1617.	1.0	2
93	Insights into population structure of East African sweetpotato cultivars from hybrid assembly of chloroplast genomes. Gates Open Research, 2018, 2, 41.	1.1	1
94	`Carolina Ruby' Sweetpotato. Hortscience: A Publication of the American Society for Hortcultural Science, 1999, 34, 155-156.	1.0	1
95	Insights into population structure of East African sweetpotato cultivars from hybrid assembly of chloroplast genomes. Gates Open Research, 2018, 2, 41.	1.1	1
96	Evaluation of Sweetpotato Cultivars to Root-knot Nematodes. Hortscience: A Publication of the American Society for Hortcultural Science, 2000, 35, 569E-569d.	1.0	0