

G Craig Yencho

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

3,350
citations

159358

30
h-index

168136

53
g-index

105
all docs

105
docs citations

105
times ranked

3015
citing authors

#	ARTICLE	IF	CITATIONS
1	Phased, chromosome-scale genome assemblies of tetraploid potato reveal a complex genome, transcriptome, and predicted proteome landscape underpinning genetic diversity. <i>Molecular Plant</i> , 2022, 15, 520-536.	3.9	72
2	A Winâ€“Win Situation: Performance and Adaptability of Petite Sweetpotato Production in a Temperate Region. <i>Horticulturae</i> , 2022, 8, 172.	1.2	5
3	Breedbase: a digital ecosystem for modern plant breeding. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	17
4	Assessment of the potential of wild <i>Ipomoea</i> spp. for the improvement of drought tolerance in cultivated sweetpotato <i>Ipomoea batatas</i> (L.) Lam. <i>Crop Science</i> , 2021, 61, 234-249.	0.8	8
5	Screening Sweetpotato Genotypes for Resistance to a North Carolina Isolate of <i>Meloidogyne enterolobii</i> . <i>Plant Disease</i> , 2021, 105, 1101-1107.	0.7	5
6	Internal defect scanning of sweetpotatoes using interactance spectroscopy. <i>PLoS ONE</i> , 2021, 16, e0246872.	1.1	2
7	Sweetpotato Root Development Influences Susceptibility to Black Rot Caused by the Fungal Pathogen <i>Ceratocystis fimbriata</i> . <i>Phytopathology</i> , 2021, 111, 1660-1669.	1.1	8
8	Breeding Progress for Vitamin A, Iron and Zinc Biofortification, Drought Tolerance, and Sweetpotato Virus Disease Resistance in Sweetpotato. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	23
9	The recombination landscape and multiple QTL mapping in a <i>Solanum tuberosum</i> cv. â€“Atlanticâ€™-derived F1 population. <i>Heredity</i> , 2021, 126, 817-830.	1.2	10
10	Quantitative Trait Locus Mapping for Common Scab Resistance in a Tetraploid Potato Full-Sib Population. <i>Plant Disease</i> , 2021, 105, 3048-3054.	0.7	3
11	Computer vision approach to characterize size and shape phenotypes of horticultural crops using high-throughput imagery. <i>Computers and Electronics in Agriculture</i> , 2021, 182, 106011.	3.7	10
12	Discovery of a major QTL for root-knot nematode (<i>Meloidogyne incognita</i>) resistance in cultivated sweetpotato (<i>Ipomoea batatas</i>). <i>Theoretical and Applied Genetics</i> , 2021, 134, 1945-1955.	1.8	14
13	ngsComposer: an automated pipeline for empirically based NGS data quality filtering. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	9
14	Linkage and QTL mapping for tuber shape and specific gravity in a tetraploid mapping population of potato representing the russet market class. <i>BMC Plant Biology</i> , 2021, 21, 507.	1.6	9
15	Quantitative trait loci and differential gene expression analyses reveal the genetic basis for negatively associated Î²-carotene and starch content in hexaploid sweetpotato [<i>Ipomoea batatas</i> (L.) Lam.]. <i>Theoretical and Applied Genetics</i> , 2020, 133, 23-36.	1.8	59
16	Assessing Rate-Reducing Foliar Resistance to Anthracnose Crown Rot and Fruit Rot in Strawberry. <i>Plant Disease</i> , 2020, 104, 398-407.	0.7	6
17	Use of unconventional mixed Acetone-Butanol-Ethanol solvents for anthocyanin extraction from Purple-Fleshed sweetpotatoes. <i>Food Chemistry</i> , 2020, 314, 125959.	4.2	14
18	Assembly of whole-chromosome pseudomolecules for polyploid plant genomes using outbred mapping populations. <i>Nature Genetics</i> , 2020, 52, 1256-1264.	9.4	13

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19	Sequencing depth and genotype quality: accuracy and breeding operation considerations for genomic selection applications in autopolyploid crops. <i>Theoretical and Applied Genetics</i> , 2020, 133, 3345-3363.	1.8	24
20	Multiple QTL Mapping in Autopolyploids: A Random-Effect Model Approach with Application in a Hexaploid Sweetpotato Full-Sib Population. <i>Genetics</i> , 2020, 215, 579-595.	1.2	42
21	Development of diagnostic SNP markers for quality assurance and control in sweetpotato [<i>Ipomoea batatas</i> (L.) Lam.] breeding programs. <i>PLoS ONE</i> , 2020, 15, e0232173.	1.1	15
22	Unraveling the Hexaploid Sweetpotato Inheritance Using Ultra-Dense Multilocus Mapping. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 281-292.	0.8	65
23	(2786) Proposal to change the conserved type of <i>Ipomoea</i> , nom. cons. (<i>Convolvulaceae</i>). <i>Taxon</i> , 2020, 69, 1369-1371.	0.4	8
24	Adaptability of a U.S. purple-fleshed sweetpotato breeding population in Uganda. <i>Australian Journal of Crop Science</i> , 2019, 13, 17-25.	0.1	5
25	Inheritance of Resistance to <i>Colletotrichum gloeosporioides</i> and <i>C. acutatum</i> in Strawberry. <i>Phytopathology</i> , 2019, 109, 428-435.	1.1	12
26	Genetic Covariance of Environments in the Potato National Chip Processing Trial. <i>Crop Science</i> , 2019, 59, 107-114.	0.8	6
27	Genetic Variance Partitioning and Genome-Wide Prediction with Allele Dosage Information in Autotetraploid Potato. <i>Genetics</i> , 2018, 209, 77-87.	1.2	117
28	Chemical Constituents of Sweetpotato Genotypes in Relation to Textural Characteristics of Processed French Fries. <i>Journal of Food Science</i> , 2018, 83, 60-73.	1.5	26
29	Linkage analysis and QTL mapping in a tetraploid russet mapping population of potato. <i>BMC Genetics</i> , 2018, 19, 87.	2.7	21
30	Genome sequences of two diploid wild relatives of cultivated sweetpotato reveal targets for genetic improvement. <i>Nature Communications</i> , 2018, 9, 4580.	5.8	181
31	Genetic Diversity and Population Structure of the USDA Sweetpotato (<i>Ipomoea batatas</i>) Germplasm Collections Using GBSpoly. <i>Frontiers in Plant Science</i> , 2018, 9, 1166.	1.7	56
32	Insights into population structure of East African sweetpotato cultivars from hybrid assembly of chloroplast genomes. <i>Gates Open Research</i> , 2018, 2, 41.	2.0	1
33	Insights into population structure of East African sweetpotato cultivars from hybrid assembly of chloroplast genomes. <i>Gates Open Research</i> , 2018, 2, 41.	2.0	1
34	Pedigree Reconstruction with Genome-Wide Markers in Potato. <i>American Journal of Potato Research</i> , 2017, 94, 184-190.	0.5	19
35	Sweetpotato (<i>Ipomoea batatas</i> L.)., 2017, , 181-218.		37
36	Identification of simple sequence repeat markers for sweetpotato weevil resistance. <i>Euphytica</i> , 2017, 213, 1.	0.6	9

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37	Linkage map construction and QTL analysis for internal heat necrosis in autotetraploid potato. <i>Theoretical and Applied Genetics</i> , 2017, 130, 2045-2056.	1.8	22
38	Segregation of Hydroxycinnamic Acid Esters Mediating Sweetpotato Weevil Resistance in Storage Roots of Sweetpotato. <i>Frontiers in Plant Science</i> , 2017, 8, 1011.	1.7	12
39	Genetic analysis and association of simple sequence repeat markers with storage root yield, dry matter, starch and β -carotene content in sweetpotato. <i>Breeding Science</i> , 2017, 67, 140-150.	0.9	18
40	Selection of Simple Sequence Repeat Markers Associated with Inheritance of Sweetpotato Virus Disease Resistance in Sweetpotato. <i>Crop Science</i> , 2017, 57, 1421-1430.	0.8	9
41	Development and Validation of a Near-Infrared Spectroscopy Method for the Prediction of Acrylamide Content in French-Fried Potato. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 1850-1860.	2.4	47
42	â€˜NASPOT 12 Oâ€™ and â€˜NASPOT 13 Oâ€™ Sweetpotato. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2016, 51, 291-295.	0.5	32
43	Peter Wilcox: a New Purple-Skin, Yellow-Flesh Fresh Market Potato Cultivar with Moderate Resistance to Powdery Scab. <i>American Journal of Potato Research</i> , 2015, 92, 573-581.	0.5	2
44	Distributions, ex situ conservation priorities, and genetic resource potential of crop wild relatives of sweetpotato [<i>Ipomoea batatas</i> (L.) Lam., l. series Batatas]. <i>Frontiers in Plant Science</i> , 2015, 6, 251.	1.7	57
45	Simple Sequence Repeat Marker Analysis of Genetic Diversity among Progeny of a Biparental Mapping Population of Sweetpotato. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2015, 50, 1143-1147.	0.5	21
46	Conventional breeding, marker-assisted selection, genomic selection and inbreeding in clonally propagated crops: a case study for cassava. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1647-1667.	1.8	130
47	Combining ability and heterosis for yield and drought tolerance traits under managed drought stress in sweetpotato. <i>Euphytica</i> , 2015, 201, 423-440.	0.6	37
48	Screening sweetpotato genotypes for tolerance to drought stress. <i>Field Crops Research</i> , 2015, 171, 11-22.	2.3	31
49	The Carbohydrate Yield of Sweetpotato (<i>Ipomoea batatas</i>) Grown from Slips and Root Pieces in North Carolina. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2015, 50, 1610-1617.	0.5	2
50	Combining Ability of Sweetpotato Germplasm for Yield, Dry Matter Content, and Anthocyanin Production. <i>Journal of the American Society for Horticultural Science</i> , 2015, 140, 272-279.	0.5	7
51	Phytochemical changes in phenolics, anthocyanins, ascorbic acid, and carotenoids associated with sweetpotato storage and impacts on bioactive properties. <i>Food Chemistry</i> , 2014, 145, 717-724.	4.2	139
52	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. <i>American Journal of Potato Research</i> , 2014, 91, 269-276.	0.5	5
53	Sweetpotato Grown from Root Pieces Displays a Significant Genotype \times Environment Interaction and Yield Instability. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 984-990.	0.5	4
54	Hydrolysis and fermentation of sweetpotatoes for production of fermentable sugars and ethanol. <i>Industrial Crops and Products</i> , 2013, 42, 527-537.	2.5	68

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55	Methodology for Inoculating Sweetpotato Virus Disease: Discovery of Tip Dieback, and Plant Recovery and Reversion in Different Clones. <i>Plant Disease</i> , 2013, 97, 30-36.	0.7	12
56	RAPD Markers Linked to Late Blight Resistance in Tomato. <i>Nepal Journal of Science and Technology</i> , 2013, 14, 1-14.	0.1	5
57	Pressurized liquid extraction and quantification of anthocyanins in purple-fleshed sweet potato genotypes. <i>Journal of Food Composition and Analysis</i> , 2012, 26, 96-103.	1.9	69
58	Early generation selection at multiple locations may identify potato parents that produce more widely adapted progeny. <i>Euphytica</i> , 2012, 186, 573-583.	0.6	15
59	Genetic Variation for Potato Tuber Micronutrient Content and Implications for Biofortification of Potatoes to Reduce Micronutrient Malnutrition. <i>American Journal of Potato Research</i> , 2012, 89, 192-198.	0.5	41
60	Linkage Mapping and QTL Analysis of Agronomic Traits in Tetraploid Potato (<i>Solanum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	0.8	35
61	Identification of quantitative trait loci for dry-matter, starch, and β -carotene content in sweetpotato. <i>Molecular Breeding</i> , 2011, 28, 201-216.	1.0	84
62	QTL mapping of internal heat necrosis in tetraploid potato. <i>Theoretical and Applied Genetics</i> , 2011, 122, 129-142.	1.8	35
63	Starch self-processing in transgenic sweet potato roots expressing a hyperthermophilic α -amylase. <i>Biotechnology Progress</i> , 2011, 27, 351-359.	1.3	18
64	"NASPOT 11"™, a Sweetpotato Cultivar Bred by a Participatory Plant-breeding Approach in Uganda. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011, 46, 317-321.	0.5	32
65	Root Piece Planting in Sweetpotato—A Synthesis of Previous Research and Directions for the Future. <i>HortTechnology</i> , 2011, 21, 703-711.	0.5	16
66	Characterization of Anthocyanins and Anthocyanidins in Purple-Fleshed Sweetpotatoes by HPLC-DAD/ESI-MS/MS. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 404-410.	2.4	139
67	An Interactive Online Database for Potato Varieties Evaluated in the Eastern United States. <i>HortTechnology</i> , 2010, 20, 250-256.	0.5	3
68	Plant cell calcium-rich environment enhances thermostability of recombinantly produced α -amylase from the hyperthermophilic bacterium <i>Thermotoga maritima</i> . <i>Biotechnology and Bioengineering</i> , 2009, 104, 947-956.	1.7	7
69	"NASPOT 7"™, "NASPOT 8"™, "NASPOT 9"™, "NASPOT 10"™, and "Dimbuka-Bukulula"™ Sweetpotato. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 828-832.	0.5	46
70	Development of a genetic linkage map and identification of homologous linkage groups in sweetpotato using multiple-dose AFLP markers. <i>Molecular Breeding</i> , 2008, 21, 511-532.	1.0	77
71	Internal Heat Necrosis of Potato—A Review. <i>American Journal of Potato Research</i> , 2008, 85, 69-76.	0.5	21
72	"Covington"™ Sweetpotato. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2008, 43, 1911-1914.	0.5	45

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73	Detection of Quantitative Trait Loci and Inheritance of Root-knot Nematode Resistance in Sweetpotato. <i>Journal of the American Society for Horticultural Science</i> , 2008, 133, 844-851.	0.5	31
74	Antioxidant activities, phenolic and β -carotene contents of sweet potato genotypes with varying flesh colours. <i>Food Chemistry</i> , 2007, 103, 829-838.	4.2	506
75	Investigating Parentage and Hybridity of Three Azaleodendrons Using Amplified Fragment Length Polymorphism Analysis. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2007, 42, 740-743.	0.5	2
76	Temperature Effect on Skin Adhesion, Cell Wall Enzyme Activity, Lignin Content, Anthocyanins, Growth Parameters, and Periderm Histochemistry of Sweetpotato. <i>Journal of the American Society for Horticultural Science</i> , 2007, 132, 729-738.	0.5	21
77	4 \times —2 \times — Potato Clones with Resistance or Susceptibility to Internal Heat Necrosis Differ in Tuber Mineral Status. <i>Crop Science</i> , 2006, 46, 1471-1478.	0.8	9
78	Skin adhesion in sweetpotato and its lack of relationship to polygalacturonase and pectinmethylesterase during storage. <i>Postharvest Biology and Technology</i> , 2004, 32, 183-192.	2.9	3
79	Stability of Internal Heat Necrosis and Specific Gravity in Tetraploid \times — Diploid Potatoes. <i>Crop Science</i> , 2003, 43, 790-796.	0.8	17
80	Diallel analysis of sweetpotatoes for resistance to sweetpotato virus disease. <i>Euphytica</i> , 2002, 128, 237-248.	0.6	40
81	GROWER-PARTICIPATORY SWEETPOTATO BREEDING EFFORTS IN NORTH CAROLINA. <i>Acta Horticulturae</i> , 2002, , 69-76.	0.1	2
82	Efficient Evaluation of Resistance to Three Root-knot Nematode Species in Selected Sweetpotato Cultivars. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2002, 37, 390-392.	0.5	17
83	Host Reactions of Sweetpotato Genotypes to Root-knot Nematodes and Variation in Virulence of <i>Meloidogyne incognita</i> Populations. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2002, 37, 1112-1116.	0.5	27
84	Resistance to Sweetpotato Chlorotic Stunt Virus and Sweetpotato Feathery Mottle Virus Is Mediated by Two Separate Recessive Genes in Sweetpotato. <i>Journal of the American Society for Horticultural Science</i> , 2002, 127, 798-806.	0.5	43
85	Amei: A multipurpose, russet-skinned potato cultivar for the Eastern United States. <i>American Journal of Potato Research</i> , 2001, 78, 175-181.	0.5	2
86	Applications of Tagging and Mapping Insect Resistance Loci in Plants. <i>Annual Review of Entomology</i> , 2000, 45, 393-422.	5.7	110
87	Segregation of leptine glycoalkaloids and resistance to Colorado potato beetle (<i>Leptinotarsa</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T <i>Journal of Potato Research</i> , 2000, 77, 167-178.	0.5	29
88	Evaluation of Sweetpotato Cultivars to Root-knot Nematodes. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2000, 35, 569E-569d.	0.5	0
89	Quantitative trait loci for polyamine content in an RFLP-mapped potato population and their relationship to tuberization. <i>Physiologia Plantarum</i> , 1999, 106, 210-218.	2.6	10
90	'Carolina Ruby' Sweetpotato. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1999, 34, 155-156.	0.5	1

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91	QTL mapping of foliar glycoalkaloid aglycones in <i>Solanum tuberosum</i> — <i>S. berthaultii</i> potato progenies: quantitative variation and plant secondary metabolism. <i>Theoretical and Applied Genetics</i> , 1998, 97, 563-574.	1.8	49
92	Molecular markers locate genes for resistance to the Colorado potato beetle, <i>Leptinotarsa decemlineata</i> , in hybrid <i>Solanum tuberosum</i> x <i>S. berthaultii</i> potato progenies. <i>Entomologia Experimentalis Et Applicata</i> , 1996, 81, 141-154.	0.7	31
93	Leaf surface extracts of <i>Solanum berthaultii</i> hawkes deter colorado potato beetle feeding. <i>Journal of Chemical Ecology</i> , 1994, 20, 991-1007.	0.9	32
94	Glandular trichomes of <i>Solanum berthaultii</i> alter host preference of the Colorado potato Beetle, <i>Leptinotarsa decemlineata</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1994, 70, 217-225.	0.7	43
95	Behavior of Pyrethroid-Susceptible and -Resistant <i>Heliothis virescens</i> (F.) (Lepidoptera: Noctuidae) Larvae on Cotton Treated with Insecticides. <i>Journal of Economic Entomology</i> , 1992, 85, 2058-2063.	0.8	5
96	Economic Injury Level, Action Threshold, and a Yield-loss Model for the Pea Aphid, <i>Acyrtosiphon pisum</i> (Homoptera: Aphididae), on Green Peas, <i>Pisum sativum</i> . <i>Journal of Economic Entomology</i> , 1986, 79, 1681-1687.	0.8	9