Fred G Gmitter Jr

List of Publications by Year
in descending order

129 papers	5,278 citations	87888 38 h-index	102487 66 g-index
133 all docs	133 docs citations	133 times ranked	3761 citing authors

#	Article	IF	Citations
1	Sequencing of diverse mandarin, pummelo and orange genomes reveals complex history of admixture during citrus domestication. Nature Biotechnology, 2014, 32, 656-662.	17.5	572
2	Genomics of the origin and evolution of Citrus. Nature, 2018, 554, 311-316.	27.8	552
3	Mining and characterizing microsatellites from citrus ESTs. Theoretical and Applied Genetics, 2006, 112, 1248-1257.	3.6	216
4	A method for the production and expedient screening of CRISPR/Cas9-mediated non-transgenic mutant plants. Horticulture Research, 2018, 5, 13.	6.3	148
5	Protoplast fusion for production of tetraploids and triploids: applications for scion and rootstock breeding in citrus. Plant Cell, Tissue and Organ Culture, 2011, 104, 343-357.	2.3	132
6	Citrus Genomics. International Journal of Plant Genomics, 2008, 2008, 1-17.	2.2	131
7	A reference genetic map of C. clementina hort. ex Tan.; citrus evolution inferences from comparative mapping. BMC Genomics, 2012, 13, 593.	2.8	129
8	The possible role of Yunnan, China, in the origin of contemporary citrus species (rutaceae). Economic Botany, 1990, 44, 267-277.	1.7	123
9	Comparative iTRAQ proteome and transcriptome analyses of sweet orange infected by â€œCandidatus Liberibacter asiaticusâ€• Physiologia Plantarum, 2011, 143, 235-245.	5.2	122
10	Changes in carbohydrate metabolism in Citrus sinensis infected with â€˜Candidatus Liberibacter asiaticusâ€™. Plant Pathology, 2010, 59, 1037-1043.	2.4	120
11	EST-SSR genetic maps for Citrus sinensis and Poncirus trifoliata. Tree Genetics and Genomes, 2008, 4, 1-10.	1.6	119
12	Transcriptional and Microscopic Analyses of Citrus Stem and Root Responses to Candidatus Liberibacter asiaticus Infection. PLoS ONE, 2013, 8, e73742.	2.5	116
13	Citrus genomics. Tree Genetics and Genomes, 2012, 8, 611-626.	1.6	104
14	Comparative Transcriptional and Anatomical Analyses of Tolerant Rough Lemon and Susceptible Sweet Orange in Response to â€˜Candidatus Liberibacter asiaticusâ€™ Infection. Molecular Plant-Microbe Interactions, 2012, 25, 1396-1407.	2.6	80
15	Development and characterization of SCAR markers linked to the citrus tristeza virus resistance gene from Poncirus trifoliata. Genome, 1997, 40, 697-704.	2.0	77
16	Aroma characterization of tangerine hybrids by gasâ€chromatographyâ€“olfactometry and sensory evaluation. Journal of the Science of Food and Agriculture, 2012, 92, 727-735.	3.5	75
17	Phloem Regeneration Is a Mechanism for Huanglongbing-Tolerance of â€œBearssâ€•Lemon and â€œLB8-9â€• Sugar BelleÂ® Mandarin. Frontiers in Plant Science, 2019, 10, 277.	3.6	66
18	Genome-Wide Characterization and Expression Analysis of Major Intrinsic Proteins during Abiotic and Biotic Stresses in Sweet Orange (Citrus sinensis L. Osb.). PLoS ONE, 2015, 10, e0138786.	2.5	65

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19	Distribution of aroma volatile compounds in tangerine hybrids and proposed inheritance. Journal of the Science of Food and Agriculture, 2011, 91, 449-460.	3.5	64
20	Differentiation between Flavors of Sweet Orange (Citrus sinensis) and Mandarin (Citrus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.2	61
21	Functional study of CHS gene family members in citrus revealed a novel CHS gene affecting the production of flavonoids. BMC Plant Biology, 2018, 18, 189.	3.6	61
22	Somatic Hybridization of Citrus with Wild Relatives for Germplasm Enhancement and Cultivar Development. Hortscience: A Publication of the American Society for Hortcultural Science, 1990, 25, 147-151.	1.0	60
23	Intergeneric somatichhybrid plants from protoplast fusion of Fortunella crassifolia cultivar â€˜Meiwaâ€™ with Citrus sinensis cultivar â€˜Valenciaâ€™. Scientia Horticulturae, 1992, 49, 55-62.	3.6	59
24	Origin and frequency of 2n gametes in Citrus sinensisÃ—Poncirus trifoliata and their reciprocal crosses. Plant Science, 2008, 174, 1-8.	3.6	56
25	A chromosomeâ€scale reference genome of trifoliate orange (Poncirus trifoliata) provides insights into disease resistance, cold tolerance and genome evolution in Citrus. Plant Journal, 2020, 104, 1215-1232.	5.7	56
26	Plant regeneration from undeveloped ovules and embryogenic calli of Citrus: Embryo production, germination, and plant survival. Plant Cell, Tissue and Organ Culture, 1986, 6, 139-147.	2.3	55
27	Title is missing!. Plant Cell, Tissue and Organ Culture, 2002, 71, 147-155.	2.3	51
28	Comprehensive meta-analysis, co-expression, and miRNA nested network analysis identifies gene candidates in citrus against Huanglongbing disease. BMC Plant Biology, 2015, 15, 184.	3.6	51
29	Inheritance of organelle genomes in citrus somatic cybrids. Molecular Breeding, 2000, 6, 401-405.	2.1	50
30	Characterization of zygotic and nucellar seedlings from sour orange-like citrus rootstock candidates using RAPD and EST-SSR markers. Tree Genetics and Genomes, 2008, 4, 113-124.	1.6	50
31	Comparison of carotenoid accumulation and biosynthetic gene expression between Valencia and Rohde Red Valencia sweet oranges. Plant Science, 2014, 227, 28-36.	3.6	48
32	Colchicine-induced polyploidy in Citrus embryogenic cultures, somatic embryos, and regenerated plantlets. Plant Science, 1991, 74, 135-141.	3.6	46
33	New insights into the resistance of Nagami kumquat to canker disease. Physiological and Molecular Plant Pathology, 2007, 71, 240-250.	2.5	46
34	Metabolically speaking: Possible reasons behind the tolerance of â€˜Sugar Belleâ€™ mandarin hybrid to huanglongbing. Plant Physiology and Biochemistry, 2017, 116, 36-47.	5.8	46
35	QTL mapping of mandarin (Citrus reticulata) fruit characters using high-throughput SNP markers. Tree Genetics and Genomes, 2016, 12, 1.	1.6	45
36	Reprogramming of a defense signaling pathway in rough lemon and sweet orange is a critical element of the early response to â€˜Candidatus Liberibacter asiaticusâ€™. Horticulture Research, 2017, 4, 17063.	6.3	44

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37	Differential anatomical responses of tolerant and susceptible citrus species to the infection of â€˜Candidatus Liberibacter asiaticusâ€™. Physiological and Molecular Plant Pathology, 2013, 83, 69-74.	2.5	42
38	All roads lead to Rome: Towards understanding different avenues of tolerance to huanglongbing in citrus cultivars. Plant Physiology and Biochemistry, 2018, 129, 1-10.	5.8	42
39	Mapping Freeze Tolerance Quantitative Trait Loci in a Citrus grandis Ã— Poncirus trifoliata F1 Pseudo-testcross Using Molecular Markers. Journal of the American Society for Horticultural Science, 2003, 128, 508-514.	1.0	40
40	Construction of High-Density Genetic Maps and Detection of QTLs Associated With Huanglongbing Tolerance in Citrus. Frontiers in Plant Science, 2018, 9, 1694.	3.6	38
41	Expression and phylogenetic analysis of two new lycopene Î²â€cyclases from Citrus paradisi. Physiologia Plantarum, 2011, 141, 1-10.	5.2	36
42	Identification of QTLs controlling aroma volatiles using a â€˜Fortuneâ€™ x â€˜Murcottâ€™ (Citrus reticulata) population. BMC Genomics, 2017, 18, 646.	2.8	35
43	Transmission of organelle genomes in citrus somatic hybrids. Plant Cell, Tissue and Organ Culture, 2000, 61, 165-168.	2.3	33
44	Novel expression patterns of carotenoid pathway-related genes in citrus leaves and maturing fruits. Tree Genetics and Genomes, 2014, 10, 439-448.	1.6	33
45	Diversification of mandarin citrus by hybrid speciation and apomixis. Nature Communications, 2021, 12, 4377.	12.8	31
46	Interspecific somatic hybrid plants from the fusion of â€˜Keyâ€™ lime (Citrus aurantifolia) with â€˜Valenciaâ€™ sweet orange (Citrus sinensis) protoplasts. Scientia Horticulturae, 1989, 39, 23-29.	3.6	30
47	Lack of Evidence for Transmission of â€˜Candidatus Liberibacter asiaticusâ€™ Through Citrus Seed Taken from Affected Fruit. Plant Disease, 2010, 94, 1200-1205.	1.4	30
48	Juice volatile composition differences between Valencia orange and its mutant Rohde Red Valencia are associated with carotenoid profile differences. Food Chemistry, 2018, 245, 223-232.	8.2	29
49	Mining of haplotype-based expressed sequence tag single nucleotide polymorphisms in citrus. BMC Genomics, 2013, 14, 746.	2.8	28
50	Identification of novel members in sweet orange carotenoid biosynthesis gene families. Tree Genetics and Genomes, 2010, 6, 905-914.	1.6	27
51	Somatic Embryogenesis: Still a Relevant Technique in Citrus Improvement. Methods in Molecular Biology, 2016, 1359, 289-327.	0.9	27
52	Linkage of an Alternaria Disease Resistance Gene in Mandarin Hybrids with RAPD Fragments. Journal of the American Society for Horticultural Science, 2005, 130, 191-195.	1.0	26
53	Genome resequencing and transcriptome profiling reveal structural diversity and expression patterns of constitutive disease resistance genes in Huanglongbing-tolerant Poncirus trifoliata and its hybrids. Horticulture Research, 2017, 4, 17064.	6.3	23
54	Immature Embryo Rescue and Culture. Methods in Molecular Biology, 2011, 710, 75-92.	0.9	22

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55	Proteomic and metabolomic analyses provide insight into production of volatile and non-volatile flavor components in mandarin hybrid fruit. BMC Plant Biology, 2015, 15, 76.	3.6	22
56	Proteomic and metabolomic analyses provide insight into the off-flavour of fruits from citrus trees infected with â€˜Candidatus Liberibacter asiaticusâ€™. Horticulture Research, 2019, 6, 31.	6.3	22
57	Field Performance of â€˜Hamlinâ€™ Orange Trees Grown on Various Rootstocks in Huanglongbing-endemic Conditions. Hortscience: A Publication of the American Society for Hortcultural Science, 2021, 56, 244-253.	1.0	22
58	Surface Barriers of Mandarin â€˜Okitsuâ€™ Leaves Make a Major Contribution to Canker Disease Resistance. Phytopathology, 2014, 104, 970-976.	2.2	21
59	Comparative analysis of juice volatiles in selected mandarins, mandarin relatives and other citrus genotypes. Journal of the Science of Food and Agriculture, 2018, 98, 1124-1131.	3.5	21
60	Sensory Evaluation and Experimental Auctions: Measuring Willingness to Pay for Specific Sensory Attributes. American Journal of Agricultural Economics, 2012, 94, 562-568.	4.3	19
61	Metabolomic Analysis Provides New Insight Into Tolerance of Huanglongbing in Citrus. Frontiers in Plant Science, 2021, 12, 710598.	3.6	19
62	Construction of citrus gene coexpression networks from microarray data using random matrix theory. Horticulture Research, 2015, 2, 15026.	6.3	19
63	Cytological and molecular characterization of three gametoclones of Citrus clementina. BMC Plant Biology, 2013, 13, 129.	3.6	18
64	Effect of fruit maturity on volatiles and sensory descriptors of four mandarin hybrids. Journal of Food Science, 2020, 85, 1548-1564.	3.1	18
65	Histone Acetyltransferases and Deacetylases Are Required for Virulence, Conidiation, DNA Damage Repair, and Multiple Stresses Resistance of Alternaria alternata. Frontiers in Microbiology, 2021, 12, 783633.	3.5	18
66	Opportunities for Western Food Products in China: The Case of Orange Juice Demand. Agribusiness, 2016, 32, 343-362.	3.4	17
67	Resistance to citrus canker induced by a variant of Xanthomonas citri ssp. citri is associated with a hypersensitive cell death response involving autophagyâ€associated vacuolar processes. Molecular Plant Pathology, 2017, 18, 1267-1281.	4.2	16
68	Consumer preference for mandarins: implications of a sensory analysis. Agribusiness, 2011, 27, 450-464.	3.4	15
69	Traditional breeding. , 2020, , 129-148.		15
70	Effects of Scion/Rootstock Combination on Flavor Quality of Orange Juice from Huanglongbing (HLB)-Affected Trees: A Two-Year Study of the Targeted Metabolomics. Journal of Agricultural and Food Chemistry, 2020, 68, 3286-3296.	5.2	15
71	The origin of citrus. , 2020, , 9-31.		15
72	Characterization of Furanocoumarin Profile and Inheritance Toward Selection of Low Furanocoumarin Seedless Grapefruit Cultivars. Journal of the American Society for Horticultural Science, 2011, 136, 358-363.	1.0	15

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73	Mechanism-based inhibition of human Cytochrome P450-3A activity by grapefruit hybrids having low furanocoumarin content. Xenobiotica, 2012, 42, 1163-1169.	1.1	14
74	De Novo Transcriptome Sequencing of Rough Lemon Leaves (Citrus jambhiri Lush.) in Response to Plenodomus tracheiphilus Infection. International Journal of Molecular Sciences, 2021, 22, 882.	4.1	14
75	Protected Fresh Grapefruit Cultivation Systems: Antipsyllid Screen Effects on Plant Growth and Leaf Transpiration, Vapor Pressure Deficit, and Nutrition. HortTechnology, 2017, 27, 666-674.	0.9	13
76	Metabolic Analysis Reveals Altered Long-Chain Fatty Acid Metabolism in the Host by Huanglongbing Disease. Journal of Agricultural and Food Chemistry, 2018, 66, 1296-1304.	5.2	13
77	LTR retrotransposons from the Citrus x clementina genome: characterization and application. Tree Genetics and Genomes, 2018, 14, 1.	1.6	13
78	Production of three new grapefruit cybrids with potential for improved citrus canker resistance. In Vitro Cellular and Developmental Biology - Plant, 2017, 53, 256-269.	2.1	13
79	Pigments in Citrus. , 2015, , 165-187.		12
80	The Power of Electropenetrography in Enhancing Our Understanding of Host Plant-Vector Interactions. Insects, 2019, 10, 407.	2.2	12
81	Identification of Key Flavor Compounds in Citrus Fruits: A Flavoromics Approach. ACS Food Science & Technology, 2021, 1, 2076-2085.	2.7	12
82	Comparative transcriptomic analysis on compatible/incompatible grafts in Citrus. Horticulture Research, 2022, 9, .	6.3	12
83	Characterization of the Major Aroma-Active Compounds in Peel Oil of an HLB-Tolerant Mandarin Hybrid Using Aroma Extraction Dilution Analysis and Gas Chromatography-Mass Spectrometry/Olfactometry. Chemosensory Perception, 2017, 10, 161-169.	1.2	11
84	Protected Fresh Grapefruit Cultivation Systems: Antipsyllid Screen Effects on Environmental Variables inside Enclosures. HortTechnology, 2017, 27, 675-681.	0.9	11
85	Water-Stress Influences on Three New Promising HLB-Tolerant Citrus Rootstocks. Horticulturae, 2021, 7, 336.	2.8	11
86	Verification of Mandarin and Pummelo Somatic Hybrids by Expressed Sequence Tagâ€“Simple Sequence Repeat Marker Analysis. Journal of the American Society for Horticultural Science, 2008, 133, 794-800.	1.0	11
87	Genome-wide characterization and selection of expressed sequence tag simple sequence repeat primers for optimized marker distribution and reliability in peach. Tree Genetics and Genomes, 2014, 10, 1271-1279.	1.6	10
88	INVESTIGATING THE PARENTAGE OF 'ORRI' AND 'FORTUNE' MANDARIN HYBRIDS. Acta Horticulturae, 2015, , 449-456.	0.2	10
89	Profiles of gene family members related to carotenoid accumulation in citrus genus. Journal of Plant Biology, 2017, 60, 1-10.	2.1	10
90	Association of T2/S-RNase With Self-Incompatibility of Japanese Citrus Accessions Examined by Transcriptomic, Phylogenetic, and Genetic Approaches. Frontiers in Plant Science, 2021, 12, 638321.	3.6	10

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91	Rationale for reconsidering current regulations restricting use of hybrids in orange juice. Horticulture Research, 2020, 7, 38.	6.3	9
92	Citrus Breeding. , 2009, , 105-134.		9
93	Isolation and characterization of a novel anthocyanin-promoting MYBA gene family in Citrus. Tree Genetics and Genomes, 2012, 8, 675-685.	1.6	8
94	Comparative iTRAQ proteomic profiling of sweet orange fruit on sensitive and tolerant rootstocks infected by â€˜CandidatusÂLiberibacter asiaticusâ€™. PLoS ONE, 2020, 15, e0228876.	2.5	8
95	The Mechanism of Citrus Host Defense Response Repression at Early Stages of Infection by Feeding of Diaphorina citri Transmitting Candidatus Liberibacter asiaticus. Frontiers in Plant Science, 2021, 12, 635153.	3.6	8
96	Genetic Diversity and Population Structure Analysis of Citrus Germplasm with Single Nucleotide Polymorphism Markers. Journal of the American Society for Horticultural Science, 2018, 143, 399-408.	1.0	7
97	Deficiency of valencene in mandarin hybrids is associated with a deletion in the promoter region of the valencene synthase gene. BMC Plant Biology, 2019, 19, 101.	3.6	7
98	Optimizing Recovery of Hybrid Embryos from Interspecific Citrus Crosses of Polyembryonic Rough Lemon (Citrus jambhiri Lush.). Agronomy, 2020, 10, 1940.	3.0	7
99	The citrus genome. , 2020, , 1-8.		7
100	Comparative Leaf Volatile Profiles of Two Contrasting Mandarin Cultivars against Candidatus Liberibacter asiaticus Infection Illustrate Huanglongbing Tolerance Mechanisms. Journal of Agricultural and Food Chemistry, 2021, 69, 10869-10884.	5.2	7
101	New Somatic Hybrid Mandarin Tetraploids Generated by Optimized Protoplast Fusion and Confirmed by Molecular Marker Analysis and Flow Cytometry. Journal of the American Society for Horticultural Science, 2019, 144, 151-163.	1.0	7
102	Genome-Wide Association Study of Healthful Flavonoids among Diverse Mandarin Accessions. Plants, 2022, 11, 317.	3.5	7
103	Physiological Responses and Gene Expression Patterns in Open-Pollinated Seedlings of a Pummelo-Mandarin Hybrid Rootstock Exposed to Salt Stress and Huanglongbing. Plants, 2021, 10, 1439.	3.5	6
104	Utilization of somatic fusion techniques for the development of HLB tolerant breeding resources employing the Australian finger lime (Citrus australasica). PLoS ONE, 2021, 16, e0255842.	2.5	6
105	Development of pGreen-derived GFP Binary Vectors for Citrus Transformation. Hortscience: A Publication of the American Society for Hortcultural Science, 2007, 42, 7-10.	1.0	6
106	Analysis of flavor and other metabolites in lemon juice (Citrus limon) from Huanglongbing-affected trees grafted on different rootstocks. Journal of Food and Drug Analysis, 2020, 28, 261-272.	1.9	6
107	Identification of genes associated with low furanocoumarin content in grapefruit. Genome, 2014, 57, 537-545.	2.0	5
108	Heterologous Expression of the Constitutive Disease Resistance 2 and 8 Genes from Poncirus trifoliata Restored the Hypersensitive Response and Resistance of Arabidopsis cdr1 Mutant to Bacterial Pathogen Pseudomonas syringae. Plants, 2020, 9, 821.	3.5	5

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109	363 INHERITANCE OF CITRUS NEMATODE RESISTANCE AND ITS LINKAGE WITH RAPD MARKERS IN CITRUS. Hortscience: A Publication of the American Society for Hortcultural Science, 1994, 29, 483a-483.	1.0	5
110	Contemporary Approaches to Improving Citrus Cultivars. HortTechnology, 1994, 4, 206-210.	0.9	5
111	Evaluation of Three New Citrus Rootstocks under Boron Toxicity Conditions. Agronomy, 2021, 11, 2490.	3.0	5
112	Forbidden fruit (Citrus sp., Rutaceae) rediscovered in Saint Lucia. Economic Botany, 1990, 44, 165-173.	1.7	4
113	Title is missing!. Plant Molecular Biology Reporter, 1999, 17, 231-238.	1.8	4
114	Effect of Lowâ€Furanocoumarin Hybrid Grapefruit Juice Consumption on Midazolam Pharmacokinetics. Journal of Clinical Pharmacology, 2017, 57, 305-311.	2.0	4
115	Novel assembly strategy cracks open the mysteries of walnut genome evolution. Horticulture Research, 2019, 6, 57.	6.3	4
116	Postharvest Quality and Acceptance of LB8-9 Mandarin as a New Fresh Fruit Cultivar. HortTechnology, 2007, 17, 72-77.	0.9	4
117	Transcriptome Analysis of Plenodomus tracheiphilus Infecting Rough Lemon (Citrus jambhiri Lush.) Indicates a Multifaceted Strategy during Host Pathogenesis. Biology, 2022, 11, 761.	2.8	4
118	Micropropagation of a Casuarina hybrid (Casuarina equisetifolia L.ÂÃ—ÂCasuarina glauca Sieber ex) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	1
119	Rectification concerning â€œIsolation and characterization of a novel anthocyanin-promoting MYBA gene family in Citrusâ€• Tree Genetics and Genomes, 2012, 8, 687-687.	1.6	1
120	MOLECULAR CHARACTERIZATION AND LINKAGE MAPPING OF THE CITRUS GENOME USING ISOZYME AND RFLP MARKERS. Hortscience: A Publication of the American Society for Hortcultural Science, 1990, 25, 1154c-1154.	1.0	1
121	Metabolic Profiling of Hybrids Generated from Pummelo and Citrus latipes in Relation to Their Attraction to Diaphorina citri, the Vector of Huanglongbing. Metabolites, 2020, 10, 477.	2.9	0
122	Recent Progress using Somatic Hybridization and Cybridization in Efforts to Develop High Quality Seedless Mandarin Hybrids. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1104C-1104.	1.0	0
123	(277) Morphological and Molecular Diversity in Coreopsis leavenworthii Populations. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 1036C-1036.	1.0	0
124	Development of Scar Markers Tightly Linked to the CTV Resistance Gene in Poncirus trifoliata. Hortscience: A Publication of the American Society for Hortcultural Science, 1995, 30, 783F-783.	1.0	0
125	Embryo Rescue Techniques to Generate Variation in Citrus Crops. Hortscience: A Publication of the American Society for Hortcultural Science, 1996, 31, 695e-696.	1.0	0
126	Title is missing!. , 2020, 15, e0228876.		0

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127	Title is missing!. , 2020, 15, e0228876.		0
128	Title is missing!. , 2020, 15, e0228876.		0
129	Title is missing!. , 2020, 15, e0228876.		0