

Robert Nicholas Trigiano

List of Publications by Year in descending order

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113
papers

1,202
citations

430874

18
h-index

526287

27
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114
all docs

114
docs citations

114
times ranked

1036
citing authors

#	ARTICLE	IF	CITATIONS
1	The ancient wave of polyploidization events in flowering plants and their facilitated adaptation to environmental stress. <i>Plant, Cell and Environment</i> , 2020, 43, 2847-2856.	5.7	71
2	Somatic embryogenesis from immature embryos of redbud (<i>Cercis canadensis</i>). <i>Plant Cell Reports</i> , 1988, 7, 148-150.	5.6	53
3	Biological Characteristics and Assessment of Virulence Diversity in Pathosystems of Economically Important Biotrophic Oomycetes. <i>Critical Reviews in Plant Sciences</i> , 2018, 37, 439-495.	5.7	46
4	DNA amplification fingerprinting provides evidence that <i>Discula destructiva</i> , the cause of dogwood anthracnose in North America, is an introduced pathogen. <i>Mycologia</i> , 1995, 87, 490-500.	1.9	37
5	A simple PCR procedure for discovering microsatellites from small insert libraries. <i>Molecular Ecology Notes</i> , 2007, 7, 558-561.	1.7	35
6	DNA Amplification Fingerprinting Provides Evidence That <i>Discula destructiva</i> , the Cause of Dogwood Anthracnose in North America, Is an Introduced Pathogen. <i>Mycologia</i> , 1995, 87, 490.	1.9	32
7	Evolution and roles of cytokinin genes in angiosperms 2: Do ancient CKXs play housekeeping roles while non-ancient CKXs play regulatory roles?. <i>Horticulture Research</i> , 2020, 7, 29.	6.3	32
8	Resistance of <i>Sclerotinia homoeocarpa</i> to Iprodione, Propiconazole, and Thiophanate-Methyl in Tennessee and Northern Mississippi. <i>Crop Science</i> , 2008, 48, 1615-1620.	1.8	27
9	Powdery Mildew of Dogwoods: Current Status and Future Prospects. <i>Plant Disease</i> , 2009, 93, 1084-1092.	1.4	27
10	Somatic embryogenesis and plantlet regeneration in <i>Cornus florida</i> . <i>Plant Cell Reports</i> , 1989, 8, 270-3.	5.6	26
11	Somatic Embryo Ontogeny in Suspension Cultures of Orchardgrass. <i>Crop Science</i> , 1989, 29, 448.	1.8	26
12	Micropropagation of flowering dogwood (<i>Cornus florida</i>) from seedlings. <i>Plant Cell Reports</i> , 1997, 16, 485-489.	5.6	25
13	Habitat fragmentation influences genetic diversity and differentiation: Fine-scale population structure of <i>Cercis canadensis</i> (eastern redbud). <i>Ecology and Evolution</i> , 2020, 10, 3655-3670.	1.9	25
14	Population Structure and Genetic Diversity Within the Endangered Species <i>Pityopsis ruthii</i> (Asteraceae). <i>Frontiers in Plant Science</i> , 2018, 9, 943.	3.6	24
15	Sequence signatures from DNA amplification fingerprints reveal fine population structure of the dogwood pathogen <i>Discula destructiva</i> . <i>FEMS Microbiology Letters</i> , 1996, 145, 377-383.	1.8	21
16	Mycobiota associated with insect galleries in walnut with thousand cankers disease reveals a potential natural enemy against <i>Geosmithia morbida</i> . <i>Fungal Biology</i> , 2018, 122, 241-253.	2.5	21
17	Analysis of genetic diversity in flowering dogwood natural stands using microsatellites: the effects of dogwood anthracnose. <i>Genetica</i> , 2010, 138, 1047-1057.	1.1	20
18	The Derivation of Modern Cannabis Varieties. <i>Critical Reviews in Plant Sciences</i> , 2016, 35, 328-348.	5.7	20

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19	Genetic structure and post-glacial expansion of <i>Cornus florida</i> L. (Cornaceae): integrative evidence from phylogeography, population demographic history, and species distribution modeling. <i>Journal of Systematics and Evolution</i> , 2016, 54, 136-151.	3.1	20
20	Shoot organogenesis and plant regeneration in <i>Pityopsis ruthii</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2011, 106, 513-516.	2.3	19
21	Genetic diversity of flowering dogwood in the Great Smoky Mountains National Park. <i>Tree Genetics and Genomes</i> , 2012, 8, 855-871.	1.6	18
22	Inheritance and allelism of morphological traits in eastern redbud (<i>Cercis canadensis</i> L.). <i>Horticulture Research</i> , 2015, 2, 15049.	6.3	18
23	The genetic and phenotypic variability of interspecific hybrid bermudagrasses (<i>Cynodon dactylon</i> (L.) Tj ETQq1 1 0,784314 rgBT /Overl...	3.2	18
24	Biochemical characterization in Norway spruce (<i>Picea abies</i>) of SABATH methyltransferases that methylate phytohormones. <i>Phytochemistry</i> , 2018, 149, 146-154.	2.9	17
25	<i>Taraxacum kok-saghyz</i> (rubber dandelion) genomic microsatellite loci reveal modest genetic diversity and cross-amplify broadly to related species. <i>Scientific Reports</i> , 2019, 9, 1915.	3.3	17
26	Genetic Analysis of Fungicide-Resistant <i>Sclerotinia homoeocarpa</i> Isolates from Tennessee and Northern Mississippi. <i>Plant Disease</i> , 2008, 92, 83-90.	1.4	16
27	A linkage map for flowering dogwood (<i>Cornus florida</i> L.) based on microsatellite markers. <i>Euphytica</i> , 2009, 165, 165-175.	1.2	16
28	Analyzing Microsatellites Using the QIAxcel System. <i>Methods in Molecular Biology</i> , 2013, 1006, 223-243.	0.9	16
29	Natural Occurrence of <i>Microsphaera pulchra</i> and <i>Phyllactinia guttata</i> on Two <i>Cornus</i> Species. <i>Plant Disease</i> , 1998, 82, 383-385.	1.4	14
30	Patterns of evolution in <i>Discula</i> fungi and the origin of dogwood anthracnose in North America, studied using arbitrarily amplified and ribosomal DNA. <i>Current Genetics</i> , 2001, 39, 346-354.	1.7	14
31	Development and characterization of sixteen microsatellite loci for <i>Geosmithia morbida</i> , the causal agent of thousand canker disease in black walnut (<i>Juglans nigra</i>). <i>Conservation Genetics Resources</i> , 2012, 4, 287-289.	0.8	14
32	In Vitro Propagation of an Endangered <i>Helianthus verticillatus</i> by Axillary Bud Proliferation. <i>Plants</i> , 2020, 9, 712.	3.5	13
33	First Report of Powdery Mildew on Whorled Sunflower (<i>Helianthus verticillatus</i>) Caused by <i>Golovinomyces ambrosiae</i> . <i>Plant Disease</i> , 2016, 100, 1017.	1.4	13
34	Ten polymorphic microsatellite loci identified from a small insert genomic library for <i>Peronospora tabacina</i> . <i>Mycologia</i> , 2012, 104, 633-640.	1.9	12
35	Spore Germination, Infection Structure Formation, and Colony Development of <i>Erysiphe pulchra</i> on Dogwood Leaves and Glass Slides. <i>Plant Disease</i> , 2005, 89, 1301-1304.	1.4	11
36	Microscopic and Macroscopic Studies of the Development of <i>Puccinia hemerocallidis</i> in Resistant and Susceptible Daylily Cultivars. <i>Plant Disease</i> , 2007, 91, 664-668.	1.4	11

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37	Introduction to the Special Issue on Bryophytes. <i>Critical Reviews in Plant Sciences</i> , 2018, 37, 102-112.	5.7	11
38	Axillary bud proliferation and organogenesis of <i>Euphorbia pulcherrima</i> winter rose. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2005, 41, 770-774.	2.1	10
39	Genetic Diversity and Conservation Status of <i>Helianthus verticillatus</i> , an Endangered Sunflower of the Southern United States. <i>Frontiers in Genetics</i> , 2020, 11, 410.	2.3	10
40	Current understanding of the <i>Poa annua</i> life cycle. <i>Crop Science</i> , 2021, 61, 1527-1537.	1.8	10
41	Honeybee-mediated Controlled Pollinations in <i>Cornus florida</i> and <i>C. kousa</i> Intra- and Interspecific Crosses. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 1527-1533.	1.0	10
42	Transfer of <i>Cornus florida</i> and <i>C. kousa</i> Simple Sequence Repeats to Selected <i>Cornus</i> (Cornaceae) Species. <i>Journal of the American Society for Horticultural Science</i> , 2010, 135, 279-288.	1.0	10
43	Assessment of resistance components of bigleaf hydrangeas (<i>Hydrangea macrophylla</i>) to <i>Erysiphe polygoni</i> in vitro. <i>Canadian Journal of Plant Pathology</i> , 2009, 31, 348-355.	1.4	9
44	Bright-Field and Fluorescence Microscopic Study of Development of <i>Erysiphe polygoni</i> in Susceptible and Resistant Bigleaf Hydrangea. <i>Plant Disease</i> , 2009, 93, 130-134.	1.4	9
45	Quantitative trait loci associated with red foliage in <i>Cornus florida</i> L. <i>Molecular Breeding</i> , 2011, 27, 409-416.	2.1	9
46	Differential expression of genes associated with non-target site resistance in <i>Poa annua</i> with target site resistance to acetolactate synthase inhibitors. <i>Pest Management Science</i> , 2021, 77, 4993-5000.	3.4	9
47	Molecular Identification Keys for Cultivars and Lines of <i>Cornus florida</i> and <i>C. kousa</i> Based on Simple Sequence Repeat Loci. <i>Journal of the American Society for Horticultural Science</i> , 2008, 133, 783-793.	1.0	9
48	Microsatellites from <i>kousa</i> dogwood (<i>Cornus kousa</i>). <i>Molecular Ecology Resources</i> , 2008, 8, 780-782.	4.8	8
49	Current and Future Needs and Applications for Cannabis. <i>Critical Reviews in Plant Sciences</i> , 2016, 35, 425-426.	5.7	8
50	Genotypic and phenotypic evaluation of off-type grasses in hybrid Bermudagrass [<i>Cynodon dactylon</i> (L.) Pers. x <i>C. transvaalensis</i> Burt-Davy] putting greens using genotyping-by-sequencing and morphological characterization. <i>Hereditas</i> , 2018, 155, 8.	1.4	8
51	Simple Sequence Repeat Markers from <i>Cercis canadensis</i> Show Wide Cross-species Transfer and Use in Genetic Studies. <i>Journal of the American Society for Horticultural Science</i> , 2012, 137, 189-201.	1.0	8
52	Development of <i>Erysiphe pulchra</i> , the causal agent of powdery mildew, on leaf disks of susceptible and resistant flowering dogwood (<i>Cornus florida</i>). <i>Canadian Journal of Plant Pathology</i> , 2006, 28, 71-76.	1.4	7
53	Development of microsatellites from <i>Fothergilla</i> – <i>intermedia</i> (Hamamelidaceae) and cross transfer to four other genera within Hamamelidaceae. <i>Applications in Plant Sciences</i> , 2015, 3, 1400123.	2.1	7
54	Introduction to the Special Issue on Cannabis. <i>Critical Reviews in Plant Sciences</i> , 2016, 35, 289-292.	5.7	7

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55	Development of Genomic Resources for the Powdery Mildew, <i>Erysiphe pulchra</i> . Plant Disease, 2019, 103, 804-807.	1.4	7
56	Genetic diversity and gene flow amongst admixed populations of <i>Ganoderma boninense</i> , causal agent of basal stem rot in African oil palm (<i>Elaeis guineensis</i> Jacq.) in Sarawak (Malaysia), Peninsular Malaysia, and Sumatra (Indonesia). Mycologia, 2021, 113, 1-16.	1.9	7
57	First Report of a Leaf Anthracnose on <i>Rohdea japonica</i> (Japanese Sacred Lily) Caused by <i>Colletotrichum liriopes</i> (<i>Glomerella</i> Species) in the United States. Plant Disease, 2018, 102, 2380-2380.	1.4	7
58	Complete chloroplast genome comparisons for Pityopsis (Asteraceae). PLoS ONE, 2020, 15, e0241391.	2.5	7
59	Inheritance of red foliage in flowering dogwood (<i>Cornus florida</i> L.). Euphytica, 2010, 176, 99-104.	1.2	6
60	Conventional Gel Electrophoresis and TaqMan Probes Enable Rapid Confirmation of Thousand Cankers Disease from Diagnostic Samples. Plant Disease, 2021, 105, 3171-3180.	1.4	6
61	Microsatellite Loci Reveal Genetic Diversity of Asian Callery Pear (<i>Pyrus calleryana</i>) in the Species Native Range and in the North American Cultivars. Life, 2021, 11, 531.	2.4	6
62	Propagation Methods for the Conservation and Preservation of the Endangered Whorled Sunflower (<i>Helianthus verticillatus</i>). Plants, 2021, 10, 1565.	3.5	6
63	Floral Visitors to <i>Helianthus verticillatus</i> , a Rare Sunflower Species in the Southern United States. Hortscience: A Publication of the American Society for Horticultural Science, 2020, 55, 1980-1986.	1.0	6
64	Analysis of Genetic Diversity and Population Structure for the Native Tree <i>Viburnum rufidulum</i> Occurring in Kentucky and Tennessee. Journal of the American Society for Horticultural Science, 2015, 140, 523-531.	1.0	6
65	Genetic diversity in North American <i>Cercis canadensis</i> reveals an ancient population bottleneck that originated after the last glacial maximum. Scientific Reports, 2021, 11, 21803.	3.3	6
66	Microsatellite Loci Reveal High Genetic Diversity, Mutation, and Migration Rates as Invasion Drivers of Callery Pear (<i>Pyrus calleryana</i>) in the Southeastern United States. Frontiers in Genetics, 2022, 13, 861398.	2.3	6
67	Development and characterization of microsatellites for switchgrass rust fungus (<i>Puccinia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.8	5
68	Molecular Identification of Synanthedonini Members (Lepidoptera: Sesiidae) using Cytochrome Oxidase I. Annals of the Entomological Society of America, 2012, 105, 520-528.	2.5	5
69	Development of microsatellites from <i>Cornus mas</i> L. (Cornaceae) and characterization of genetic diversity of cornelian cherries from China, central Europe, and the United States. Scientia Horticulturae, 2014, 179, 314-320.	3.6	5
70	Haplotyping of <i>Cornus florida</i> and <i>C. kousa</i> chloroplasts: Insights into species-level differences and patterns of plastic DNA variation in cultivars. PLoS ONE, 2018, 13, e0205407.	2.5	5
71	Low Genetic Diversity Suggests the Recent Introduction of Dogwood Powdery Mildew to North America. Plant Disease, 2019, 103, 2903-2912.	1.4	5
72	Confirmation of independent introductions of an exotic plant pathogen of <i>Cornus</i> species, <i>Discula destructiva</i> , on the east and west coasts of North America. PLoS ONE, 2017, 12, e0180345.	2.5	5

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73	Screening and Characterization of 11 Novel Microsatellite Markers from <i>Viburnum dilatatum</i> . Hortscience: A Publication of the American Society for Horticultural Science, 2011, 46, 1456-1459.	1.0	5
74	Development and Characterization of Genic Microsatellites for the Ornamental Plant Green and Gold (<i>Chrysogonum virginianum</i>). Hortscience: A Publication of the American Society for Horticultural Science, 2019, 54, 395-400.	1.0	5
75	In vitro adventitious rooting of <i>Cornus florida</i> microshoots. Scientia Horticulturae, 2005, 103, 381-385.	3.6	4
76	Isolation and characterization of microsatellite loci for <i>Cornus sanguinea</i> (Cornaceae). Applications in Plant Sciences, 2013, 1, 1300012.	2.1	4
77	Characterization of 12 polymorphic microsatellite loci of <i>Pityopsis graminifolia</i> var. <i>latifolia</i> . Conservation Genetics Resources, 2014, 6, 1043-1045.	0.8	4
78	Development of microsatellite loci in <i>Pityophthorus juglandis</i> , a vector of thousand cankers disease in <i>Juglans</i> spp.. Conservation Genetics Resources, 2015, 7, 431-433.	0.8	4
79	First Report of <i>Alternaria alternata</i> Causing Leaf Spot on Whorled Sunflower (<i>Helianthus</i>) Tj ETQq1 1 0.784314 rgBT /Overl	1.4	4
80	Development and Characterization of 15 Novel Genomic SSRs for <i>Viburnum farreri</i> . Plants, 2021, 10, 487.	3.5	4
81	First Report of Powdery Mildew on Rescuegrass (<i>Bromus catharticus</i>) Caused by <i>Blumeria graminis</i> in Tennessee. Plant Disease, 2018, 102, 449-449.	1.4	4
82	Development and Characterization of 20 Genomic SSR Markers for Ornamental Cultivars of <i>Weigela</i> . Plants, 2022, 11, 1444.	3.5	4
83	Confirmation and Control of Annual Bluegrass Resistant to Photosystem-II-Inhibiting Herbicides. Itsrj, 2017, 13, 675.	0.3	3
84	Species diversity and phylogeography of <i>Cornus kousa</i> (Asian dogwood) captured by genomic and genic microsatellites. Ecology and Evolution, 2020, 10, 8299-8312.	1.9	3
85	“Jumping Jack” Genomic Microsatellites Underscore the Distinctiveness of Closely Related <i>Pseudoperonospora cubensis</i> and <i>Pseudoperonospora humuli</i> and Provide New Insights Into Their Evolutionary Past. Frontiers in Microbiology, 2021, 12, 686759.	3.5	3
86	First Report of <i>Chaetomium globosum</i> Causing a Leaf Spot of Hemp (<i>Cannabis sativa</i>) in Tennessee. Plant Disease, 2020, 104, 1540.	1.4	3
87	First Report of Powdery Mildew on Ruth's Golden Aster (<i>Pityopsis ruthii</i>) Caused by <i>Golovinomyces cichoracearum</i> (<i>Erysiphe cichoracearum</i>). Plant Disease, 2011, 95, 879-879.	1.4	3
88	First Report of Aerial Blight of Ruth's Golden Aster (<i>Pityopsis ruthii</i>) Caused by <i>Rhizoctonia solani</i> in the United States. Plant Disease, 2014, 98, 855-855.	1.4	3
89	In vitro plant regeneration from ovules of <i>Taraxacum officinale</i> and <i>Taraxacum koksaghyz</i> . African Journal of Biotechnology, 2017, 16, 1764-1775.	0.6	2
90	First Report of Powdery Mildew Caused by <i>Golovinomyces spadiceus</i> on Green and Gold (<i>Chrysogonum virginianum</i>) in the United States. Plant Disease, 2018, 102, 252-252.	1.4	2

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91	Microsatellite Markers from <i>Peronospora tabacina</i> , the Cause of Blue Mold of Tobacco, Reveal Species Origin, Population Structure, and High Gene Flow. <i>Phytopathology</i> , 2022, 112, 422-434.	2.2	2
92	(290) Analysis of Genetic Diversity in Selected Cornus Species Using SSR Markers. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006, 41, 1077E-1078.	1.0	2
93	Three New Cultivars of Cornus kousa: Empire, Pamâ€™s Mountain Bouquet, and Red Steeple. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 1230-1233.	1.0	2
94	First Report of <i>Alternaria alternata</i> Causing Leaf Spot on Ruthâ€™s Golden Aster (<i>Pityopsis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.4	2
95	First Report of Honeysuckle Leaf Blight on Amur Honeysuckle (<i>Lonicera maackii</i>) Caused by <i>Insolibasidium deformans</i> in Tennessee. <i>Plant Disease</i> , 2019, 103, 772.	1.4	2
96	First Report of Stagonosporopsis heliopsisidis causing a leaf spot on Whorled Sunflower, Helianthus verticillatus, in the United States. <i>Plant Disease</i> , 2022, , .	1.4	2
97	First Report of Coleosporium helianthi infecting Helianthus verticillatus (Whorled Sunflower) in the United States. <i>Plant Disease</i> , 2021, , .	1.4	2
98	A genetic analysis of grey squirrel (Sciurus carolinensis) populations in Ireland. <i>Biological Invasions</i> , 2022, 24, 2421-2438.	2.4	2
99	Chloroplast genome of the invasive Pyrus calleryana underscores the high molecular diversity of the species. <i>Journal of Applied Genetics</i> , 2022, 63, 463-467.	1.9	2
100	Identification of two <i>Eleusine indica</i> (goosegrass) biotypes of coolâ€™season turfgrass resistant to dithiopyr. <i>Pest Management Science</i> , 2022, 78, 499-505.	3.4	1
101	First Report of a Cercospora Species Causing a Leaf Spot on the Whorled Sunflower, Helianthus verticillatus, in the United States. <i>Plant Disease</i> , 2020, 104, 1863-1863.	1.4	1
102	Using Simple Sequence Repeats (SSRs) to Measure Pollen Flow in a Flowering Dogwood Orchard. <i>Journal of Environmental Horticulture</i> , 2011, 29, 175-179.	0.5	1
103	First Report of <i>Cercospora apii</i> s. lat. Causing a Leaf Spot on Cardinal Flower (<i>Lobelia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.4	0
104	Preface to the Special Issue on Bryophytes. <i>Critical Reviews in Plant Sciences</i> , 2018, 37, 101-101.	5.7	0
105	Development and characterization of microsatellites from the sweetpotato weevil, Cylas formicarius elegantulus. <i>Journal of Applied Entomology</i> , 2020, 144, 335-340.	1.8	0
106	(175) In Vitro Regeneration of Cladrastis kentukea. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2005, 40, 1052C-1052.	1.0	0
107	(59) Encore Azalea Selections for the Mid South. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006, 41, 1042C-1042.	1.0	0
108	(44) Microscopic and Macroscopic Studies on the Development of Puccinia hemerocallidis in Resistant and Susceptible Daylily Cultivars. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006, 41, 1054B-1054.	1.0	0

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109	First Report of Powdery Mildew on Henbit (<i>Lamium amplexicaule</i>) and Dead-Nettle (<i>L. sp.</i>) Tj ETQq1 1 0.784314 rgBT /Over Disease, 2016, 100, 2332-2332.	1.4	0
110	First Report of an Aerial Blight of <i>Chrysogonum virginianum</i> (Green and Gold) Caused by <i>Sclerotinia sclerotiorum</i> in the United States. Plant Disease, 2018, 102, 450.	1.4	0
111	First Report of Powdery Mildew on Mountain Mints (<i>Pycnanthemum</i> spp.) Caused by <i>Golovinomyces</i> <i>monardae</i> in the United States. Plant Disease, 2018, 102, 1849.	1.4	0
112	Micropropagation of flowering dogwood (<i>Cornus florida</i>) from seedlings. Plant Cell Reports, 1997, 16, 485-489.	5.6	0
113	First report of leaf anthracnose on the Whorled Sunflower, <i>Helianthus verticillatus</i> , caused by <i>Colletotrichum fioriniae</i> in the United States. Plant Disease, 0, , .	1.4	0