

Stephen P Difazio

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

10,548
citations

76326

40
h-index

69250

77
g-index

93
all docs

93
docs citations

93
times ranked

11166
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome of Black Cottonwood, <i>Populus trichocarpa</i> (Torr. & Gray). <i>Science</i> , 2006, 313, 1596-1604.	12.6	3,945
2	The genome of <i>Laccaria bicolor</i> provides insights into mycorrhizal symbiosis. <i>Nature</i> , 2008, 452, 88-92.	27.8	1,003
3	A framework for community and ecosystem genetics: from genes to ecosystems. <i>Nature Reviews Genetics</i> , 2006, 7, 510-523.	16.3	911
4	Population genomics of <i>Populus trichocarpa</i> identifies signatures of selection and adaptive trait associations. <i>Nature Genetics</i> , 2014, 46, 1089-1096.	21.4	330
5	Genomic insights into salt adaptation in a desert poplar. <i>Nature Communications</i> , 2013, 4, 2797.	12.8	286
6	Genome-wide analysis of Aux/IAA and ARF gene families in <i>Populus trichocarpa</i> . <i>BMC Plant Biology</i> , 2007, 7, 59.	3.6	218
7	Extending Genomics to Natural Communities and Ecosystems. <i>Science</i> , 2008, 320, 492-495.	12.6	189
8	Genome structure and emerging evidence of an incipient sex chromosome in <i>Populus</i> . <i>Genome Research</i> , 2008, 18, 422-430.	5.5	177
9	Genome resequencing reveals multiscale geographic structure and extensive linkage disequilibrium in the forest tree <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2012, 196, 713-725.	7.3	173
10	Genome-wide association mapping for wood characteristics in <i>Populus</i> identifies an array of candidate single nucleotide polymorphisms. <i>New Phytologist</i> , 2013, 200, 710-726.	7.3	158
11	Characterization of microsatellites revealed by genomic sequencing of <i>Populus trichocarpa</i> . <i>Canadian Journal of Forest Research</i> , 2004, 34, 85-93.	1.7	145
12	The <i>Populus</i> homeobox gene <i>ARBORKNOX1</i> reveals overlapping mechanisms regulating the shoot apical meristem and the vascular cambium. <i>Plant Molecular Biology</i> , 2006, 61, 917-932.	3.9	141
13	Large-scale heterospecific segregation distortion in <i>Populus</i> revealed by a dense genetic map. <i>Theoretical and Applied Genetics</i> , 2004, 109, 451-463.	3.6	135
14	Phenotypic variation in growth and biomass distribution for two advanced-generation pedigrees of hybrid poplar. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1779-1789.	1.7	134
15	Contrasting patterns of evolution following whole genome versus tandem duplication events in <i>Populus</i> . <i>Genome Research</i> , 2012, 22, 95-105.	5.5	126
16	Genetic containment of forest plantations. <i>Tree Genetics and Genomes</i> , 2007, 3, 75-100.	1.6	112
17	Poplar Genomics is Getting Popular: The Impact of the Poplar Genome Project on Tree Research. <i>Plant Biology</i> , 2004, 6, 2-4.	3.8	109
18	High-resolution genetic mapping of allelic variants associated with cell wall chemistry in <i>Populus</i> . <i>BMC Genomics</i> , 2015, 16, 24.	2.8	106

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19	Phylogenomics of the genus <i>Populus</i> reveals extensive interspecific gene flow and balancing selection. <i>New Phytologist</i> , 2020, 225, 1370-1382.	7.3	93
20	A 34K SNP genotyping array for <i>Populus trichocarpa</i> : Design, application to the study of natural populations and transferability to other <i>Populus</i> species. <i>Molecular Ecology Resources</i> , 2013, 13, 306-323.	4.8	92
21	Structure and expression of duplicate AGAMOUS orthologues in poplar. <i>Plant Molecular Biology</i> , 2000, 44, 619-634.	3.9	88
22	Multitrait genome-wide association analysis of <i>Populus trichocarpa</i> identifies key polymorphisms controlling morphological and physiological traits. <i>New Phytologist</i> , 2019, 223, 293-309.	7.3	85
23	Insights of biomass recalcitrance in natural <i>Populus trichocarpa</i> variants for biomass conversion. <i>Green Chemistry</i> , 2017, 19, 5467-5478.	9.0	82
24	A willow sex chromosome reveals convergent evolution of complex palindromic repeats. <i>Genome Biology</i> , 2020, 21, 38.	8.8	74
25	A physical map of the highly heterozygous <i>Populus</i> genome: integration with the genome sequence and genetic map and analysis of haplotype variation. <i>Plant Journal</i> , 2007, 50, 1063-1078.	5.7	70
26	Hybrid speciation via inheritance of alternate alleles of parental isolating genes. <i>Molecular Plant</i> , 2021, 14, 208-222.	8.3	68
27	The CP4 transgene provides high levels of tolerance to Roundup® herbicide in field-grown hybrid poplars. <i>Canadian Journal of Forest Research</i> , 2002, 32, 967-976.	1.7	66
28	Genetic and physical mapping of <i>Melampsora</i> rust resistance genes in <i>Populus</i> and characterization of linkage disequilibrium and flanking genomic sequence. <i>New Phytologist</i> , 2004, 164, 95-105.	7.3	66
29	Extensive pollen flow in two ecologically contrasting populations of <i>Populus trichocarpa</i> . <i>Molecular Ecology</i> , 2009, 18, 357-373.	3.9	65
30	Environmental effects of genetically engineered woody biomass crops. <i>Biomass and Bioenergy</i> , 1998, 14, 403-414.	5.7	62
31	Characterization of a large sex determination region in <i>Salix purpurea</i> L. (Salicaceae). <i>Molecular Genetics and Genomics</i> , 2018, 293, 1437-1452.	2.1	61
32	Adaptive introgression and maintenance of a trispecies hybrid complex in range-edge populations of <i>Populus</i> . <i>Molecular Ecology</i> , 2018, 27, 4820-4838.	3.9	56
33	A 5-Enolpyruvylshikimate 3-Phosphate Synthase Functions as a Transcriptional Repressor in <i>Populus</i> . <i>Plant Cell</i> , 2018, 30, 1645-1660.	6.6	56
34	Pathways to sex determination in plants: how many roads lead to Rome?. <i>Current Opinion in Plant Biology</i> , 2020, 54, 61-68.	7.1	54
35	A General Model to Explain Repeated Turnovers of Sex Determination in the Salicaceae. <i>Molecular Biology and Evolution</i> , 2021, 38, 968-980.	8.9	53
36	The obscure events contributing to the evolution of an incipient sex chromosome in <i>Populus</i> : a retrospective working hypothesis. <i>Tree Genetics and Genomes</i> , 2012, 8, 559-571.	1.6	50

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37	Hardwood Tree Genomics: Unlocking Woody Plant Biology. <i>Frontiers in Plant Science</i> , 2018, 9, 1799.	3.6	50
38	Gene flow and simulation of transgene dispersal from hybrid poplar plantations. <i>New Phytologist</i> , 2012, 193, 903-915.	7.3	49
39	Genetically modified poplars in context. <i>Forestry Chronicle</i> , 2001, 77, 271-279.	0.6	45
40	Improved genome assembly provides new insights into genome evolution in a desert poplar (<i>Populus euphratica</i>). <i>Molecular Ecology Resources</i> , 2020, 20, 781-794.	4.8	45
41	A dense linkage map of hybrid cottonwood (<i>Populus fremontii</i> × <i>P. angustifolia</i>) contributes to long-term ecological research and comparison mapping in a model forest tree. <i>Heredity</i> , 2008, 100, 59-70.	2.6	44
42	Poplar Genomics: State of the Science. <i>Critical Reviews in Plant Sciences</i> , 2009, 28, 285-308.	5.7	42
43	Joint linkage and association mapping of complex traits in shrub willow (<i>Salix purpurea</i> L.). <i>Annals of Botany</i> , 2019, 124, 701-715.	2.9	37
44	Identification of quantitative trait loci and candidate genes for cadmium tolerance in <i>Populus</i> . <i>Tree Physiology</i> , 2012, 32, 626-638.	3.1	36
45	Factors limiting seed production of <i>Taxus Brevifolia</i> (Taxaceae) in Western Oregon. <i>American Journal of Botany</i> , 1998, 85, 910-918.	1.7	33
46	Pleiotropic and Epistatic Network-Based Discovery: Integrated Networks for Target Gene Discovery. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	32
47	Cytogenetic Analysis of <i>Populus trichocarpa</i> : Ribosomal DNA, Telomere Repeat Sequence, and Marker-selected BACs. <i>Cytogenetic and Genome Research</i> , 2009, 125, 74-80.	1.1	30
48	Predicting whole genome protein interaction networks from primary sequence data in model and non-model organisms using ENTS. <i>BMC Genomics</i> , 2013, 14, 608.	2.8	28
49	Geographical barriers and climate influence demographic history in narrowleaf cottonwoods. <i>Heredity</i> , 2015, 114, 387-396.	2.6	27
50	Population substructure in continuous and fragmented stands of <i>Populus trichocarpa</i> . <i>Heredity</i> , 2010, 105, 348-357.	2.6	26
51	Sex determination through X-Y heterogamety in <i>Salix nigra</i> . <i>Heredity</i> , 2021, 126, 630-639.	2.6	26
52	Mycorrhizal symbionts of <i>Populus</i> to be sequenced by the United States Department of Energy's Joint Genome Institute. <i>Mycorrhiza</i> , 2004, 14, 63-64.	2.8	25
53	Efficiency of gene silencing in <i>Arabidopsis</i> : direct inverted repeats vs. transitive RNAi vectors. <i>Plant Biotechnology Journal</i> , 2007, 5, 615-626.	8.3	23
54	Agronomic performance of <i>Populus deltoides</i> trees engineered for biofuel production. <i>Biotechnology for Biofuels</i> , 2017, 10, 253.	6.2	22

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55	Genome-Wide Association Study of Wood Anatomical and Morphological Traits in <i>Populus trichocarpa</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 545748.	3.6	21
56	Multi-Phenotype Association Decomposition: Unraveling Complex Gene-Phenotype Relationships. <i>Frontiers in Genetics</i> , 2019, 10, 417.	2.3	20
57	Sequencing and Analysis of the Sex Determination Region of <i>Populus trichocarpa</i> . <i>Genes</i> , 2020, 11, 843.	2.4	19
58	Emerging Use of Gene Expression Microarrays in Plant Physiology. <i>Comparative and Functional Genomics</i> , 2003, 4, 216-224.	2.0	17
59	An efficient method for purification of PCR products for sequencing. <i>BioTechniques</i> , 2008, 44, 921-923.	1.8	17
60	Sexual dimorphism in the dioecious willow <i>Salix purpurea</i> . <i>American Journal of Botany</i> , 2021, 108, 1374-1387.	1.7	14
61	<i>Populus</i> . , 2011, , 1-28.		14
62	Finding New Cell Wall Regulatory Genes in <i>Populus trichocarpa</i> Using Multiple Lines of Evidence. <i>Frontiers in Plant Science</i> , 2019, 10, 1249.	3.6	13
63	Genetic diversity and population structure of native, naturalized, and cultivated <i>Salix purpurea</i> . <i>Tree Genetics and Genomes</i> , 2019, 15, 1.	1.6	13
64	Integrative genomics reveals paths to sex dimorphism in <i>Salix purpurea</i> L. <i>Horticulture Research</i> , 2021, 8, 170.	6.3	12
65	Poplar Genome Microarrays. , 2011, , 112-127.		12
66	Wavelet-Based Genomic Signal Processing for Centromere Identification and Hypothesis Generation. <i>Frontiers in Genetics</i> , 2019, 10, 487.	2.3	11
67	Variation in sex expression of <i>Taxus brevifolia</i> in western Oregon. <i>Canadian Journal of Botany</i> , 1996, 74, 1943-1946.	1.1	9
68	A targeted sequence capture array for phylogenetics and population genomics in the Salicaceae. <i>Applications in Plant Sciences</i> , 2020, 8, e11394.	2.1	9
69	ISSRseq: An extensible method for reduced representation sequencing. <i>Methods in Ecology and Evolution</i> , 2022, 13, 668-681.	5.2	9
70	Strobilus production and growth of Pacific yew under a range of over story conditions in western Oregon. <i>Canadian Journal of Forest Research</i> , 1997, 27, 986-993.	1.7	6
71	Large effect quantitative trait loci for salicinoid phenolic glycosides in <i>Populus</i> : Implications for gene discovery. <i>Ecology and Evolution</i> , 2018, 8, 3726-3737.	1.9	6
72	Accurate determination of genotypic variance of cell wall characteristics of <i>Populus trichocarpa</i> pedigree using high-throughput pyrolysis-molecular beam mass spectrometry. <i>Biotechnology for Biofuels</i> , 2021, 14, 59.	6.2	6

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73	Characterization of <i>Salix nigra</i> floral insect community and activity of three native <i>Andrena</i> bees. <i>Ecology and Evolution</i> , 2021, 11, 4688-4700.	1.9	5
74	The Populus Genome and Comparative Genomics. , 2010, , 67-90.		5
75	Host plant genetic control of associated fungal and insect species in a <i>Populus</i> hybrid cross. <i>Ecology and Evolution</i> , 2020, 10, 5119-5134.	1.9	4
76	Abundance of Major Cell Wall Components in Natural Variants and Pedigrees of <i>Populus trichocarpa</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 757810.	3.6	3
77	The Populus Genome Initiative. , 2010, , 243-274.		0
78	The Populus Genome Sequence. , 2011, , 85-111.		0