

Peter L Tiffin

List of Publications by Year in descending order

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101
papers

8,504
citations

47006

47
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49909

87
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114
all docs

114
docs citations

114
times ranked

10940
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative population genomics of maize domestication and improvement. <i>Nature Genetics</i> , 2012, 44, 808-811.	21.4	816
2	Advances and limits of using population genetics to understand local adaptation. <i>Trends in Ecology and Evolution</i> , 2014, 29, 673-680.	8.7	329
3	Mechanisms of tolerance to herbivore damage: what do we know?. <i>Evolutionary Ecology</i> , 2000, 14, 523-536.	1.2	323
4	Pervasive gene content variation and copy number variation in maize and its undomesticated progenitor. <i>Genome Research</i> , 2010, 20, 1689-1699.	5.5	309
5	Epigenetic and Genetic Influences on DNA Methylation Variation in Maize Populations. <i>Plant Cell</i> , 2013, 25, 2783-2797.	6.6	227
6	Whole-genome nucleotide diversity, recombination, and linkage disequilibrium in the model legume <i>Medicago truncatula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E864-70.	7.1	220
7	Testing for Environmentally Induced Bias in Phenotypic Estimates of Natural Selection: Theory and Practice. <i>American Naturalist</i> , 2002, 160, 511-523.	2.1	219
8	PATTERNS OF REPRODUCTIVE ISOLATION IN THREE ANGIOSPERM GENERA. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1195-1208.	2.3	213
9	Host Genotype Shapes the Foliar Fungal Microbiome of Balsam Poplar (<i>Populus balsamifera</i>). <i>PLoS ONE</i> , 2013, 8, e53987.	2.5	213
10	Context dependence in the coevolution of plant and rhizobial mutualists. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1905-1912.	2.6	209
11	Genetic Constraints and Selection Acting on Tolerance to Herbivory in the Common Morning Glory <i>Ipomoea purpurea</i> . <i>American Naturalist</i> , 1999, 154, 700-716.	2.1	205
12	Patterns of evolutionary rate variation among genes of the anthocyanin biosynthetic pathway. <i>Molecular Biology and Evolution</i> , 1999, 16, 266-274.	8.9	199
13	STABILIZING MECHANISMS IN A LEGUME-RHIZOBIUM MUTUALISM. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 652-662.	2.3	174
14	Heterosis Is Prevalent for Multiple Traits in Diverse Maize Germplasm. <i>PLoS ONE</i> , 2009, 4, e7433.	2.5	173
15	Comparative genomics of the core and accessory genomes of 48 <i>Sinorhizobium</i> strains comprising five genospecies. <i>Genome Biology</i> , 2013, 14, R17.	9.6	164
16	Genomic Signature of Adaptation to Climate in <i>Medicago truncatula</i> . <i>Genetics</i> , 2014, 196, 1263-1275.	2.9	160
17	Candidate Genes and Genetic Architecture of Symbiotic and Agronomic Traits Revealed by Whole-Genome, Sequence-Based Association Genetics in <i>Medicago truncatula</i> . <i>PLoS ONE</i> , 2013, 8, e65688.	2.5	156
18	Reshaping of the maize transcriptome by domestication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11878-11883.	7.1	154

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19	Relocation, high-latitude warming and host genetic identity shape the foliar fungal microbiome of poplars. <i>Molecular Ecology</i> , 2015, 24, 235-248.	3.9	125
20	Reduced pollinator service and elevated pollen limitation at the geographic range limit of an annual plant. <i>Ecology</i> , 2012, 93, 1036-1048.	3.2	119
21	Plant functional type classifications in tropical dry forests in Costa Rica: leaf habit versus taxonomic approaches. <i>Functional Ecology</i> , 2010, 24, 927-936.	3.6	112
22	MEASURING TOLERANCE TO HERBIVORY: ACCURACY AND PRECISION OF ESTIMATES MADE USING NATURAL VERSUS IMPOSED DAMAGE. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1024-1029.	2.3	111
23	Molecular evolution of plant immune system genes. <i>Trends in Genetics</i> , 2006, 22, 662-670.	6.7	111
24	Are Tolerance, Avoidance, and Antibiosis Evolutionarily and Ecologically Equivalent Responses of Plants to Herbivores?. <i>American Naturalist</i> , 2000, 155, 128-138.	2.1	107
25	Local Adaptation in the Flowering-Time Gene Network of Balsam Poplar, <i>Populus balsamifera</i> L.. <i>Molecular Biology and Evolution</i> , 2012, 29, 3143-3152.	8.9	106
26	Climate-driven local adaptation of ecophysiology and phenology in balsam poplar, <i>Populus balsamifera</i> L. (Salicaceae). <i>American Journal of Botany</i> , 2011, 98, 99-108.	1.7	103
27	Genomic diversity, population structure, and migration following rapid range expansion in the Balsam Poplar, <i>Populus balsamifera</i> . <i>Molecular Ecology</i> , 2010, 19, 1212-1226.	3.9	101
28	Pleistocene Speciation in the Genus <i>Populus</i> (Salicaceae). <i>Systematic Biology</i> , 2012, 61, 401.	5.6	100
29	The adaptive potential of <i>Populus balsamifera</i> L. to phenology requirements in a warmer global climate. <i>Molecular Ecology</i> , 2013, 22, 1214-1230.	3.9	91
30	COMPETITION AND TIME OF DAMAGE AFFECT THE PATTERN OF SELECTION ACTING ON PLANT DEFENSE AGAINST HERBIVORES. <i>Ecology</i> , 2002, 83, 1981-1990.	3.2	88
31	Select and resequence reveals relative fitness of bacteria in symbiotic and free-living environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2425-2430.	7.1	88
32	Exploring structural variation and gene family architecture with De Novo assemblies of 15 <i>Medicago</i> genomes. <i>BMC Genomics</i> , 2017, 18, 261.	2.8	87
33	High-density genome-wide association mapping implicates an <i>F-box</i> encoding gene in <i>Medicago truncatula</i> resistance to <i>Aphanomyces euteiches</i> . <i>New Phytologist</i> , 2014, 201, 1328-1342.	7.3	86
34	The Role of Deleterious Substitutions in Crop Genomes. <i>Molecular Biology and Evolution</i> , 2016, 33, 2307-2317.	8.9	83
35	Role of climate and competitors in limiting fitness across range edges of an annual plant. <i>Ecology</i> , 2012, 93, 1604-1613.	3.2	81
36	A Guide to Genome-Wide Association Mapping in Plants. <i>Current Protocols in Plant Biology</i> , 2017, 2, 22-38.	2.8	75

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37	Validating Genome-Wide Association Candidates Controlling Quantitative Variation in Nodulation. <i>Plant Physiology</i> , 2017, 173, 921-931.	4.8	71
38	Nucleotide diversity and linkage disequilibrium in balsam poplar (<i>Populus balsamifera</i>). <i>New Phytologist</i> , 2010, 186, 526-536.	7.3	70
39	Coding Sequence Divergence Between Two Closely Related Plant Species: <i>Arabidopsis thaliana</i> and <i>Brassica rapa</i> ssp. <i>pekinensis</i> . <i>Journal of Molecular Evolution</i> , 2002, 54, 746-753.	1.8	69
40	Population Genomics of the Facultatively Mutualistic Bacteria <i>Sinorhizobium meliloti</i> and <i>S. medicae</i> . <i>PLoS Genetics</i> , 2012, 8, e1002868.	3.5	69
41	Evolution in ecological field experiments: implications for effect size. <i>Ecology Letters</i> , 2008, 11, 199-207.	6.4	66
42	Potential of Association Mapping and Genomic Selection to Explore PI 88788 Derived Soybean Cyst Nematode Resistance. <i>Plant Genome</i> , 2014, 7, plantgenome2013.11.0039.	2.8	63
43	Fine-Scale Population Recombination Rates, Hotspots, and Correlates of Recombination in the <i>Medicago truncatula</i> Genome. <i>Genome Biology and Evolution</i> , 2012, 4, 726-737.	2.5	62
44	Molecular Evolution of the Wound-Induced Serine Protease Inhibitor <i>wip1</i> in <i>Zea</i> and Related Genera. <i>Molecular Biology and Evolution</i> , 2001, 18, 2092-2101.	8.9	61
45	Species distribution models throughout the invasion history of Palmer amaranth predict regions at risk of future invasion and reveal challenges with modeling rapidly shifting geographic ranges. <i>Scientific Reports</i> , 2019, 9, 2426.	3.3	60
46	Population Structure and Its Effects on Patterns of Nucleotide Polymorphism in Teosinte (<i>Zea mays</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.9	55
47	Context Dependence of Local Adaptation to Abiotic and Biotic Environments: A Quantitative and Qualitative Synthesis. <i>American Naturalist</i> , 2020, 195, 412-431.	2.1	55
48	Coding Sequence Divergence Between Two Closely Related Plant Species: <i>Arabidopsis thaliana</i> and <i>Brassica rapa</i> ssp. <i>pekinensis</i> . <i>Journal of Molecular Evolution</i> , 2002, 54, 746-753.	1.8	54
49	Selection, genome-wide fitness effects and evolutionary rates in the model legume <i>Medicago truncatula</i> . <i>Molecular Ecology</i> , 2013, 22, 3525-3538.	3.9	54
50	Estimating heritability using genomic data. <i>Methods in Ecology and Evolution</i> , 2013, 4, 1151-1158.	5.2	54
51	Strategies for optimizing BioNano and Dovetail explored through a second reference quality assembly for the legume model, <i>Medicago truncatula</i> . <i>BMC Genomics</i> , 2017, 18, 578.	2.8	54
52	Living in the city: urban environments shape the evolution of a native annual plant. <i>Global Change Biology</i> , 2017, 23, 2082-2089.	9.5	52
53	Phylogenetic Signal Variation in the Genomes of <i>Medicago</i> (Fabaceae). <i>Systematic Biology</i> , 2013, 62, 424-438.	5.6	51
54	Hybrid assembly with long and short reads improves discovery of gene family expansions. <i>BMC Genomics</i> , 2017, 18, 541.	2.8	51

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55	Little plant, big city: a test of adaptation to urban environments in common ragweed (<i>Ambrosia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock_10 Tf 50 62 Td (art	2.6	50
56	Genomic structural variants constrain and facilitate adaptation in natural populations of <i>Theobroma cacao</i> , the chocolate tree. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	50
57	Local adaptation and range boundary formation in response to complex environmental gradients across the geographical range of <i>Clarkia xantiana</i> ssp. <i>xantiana</i> . Journal of Ecology, 2014, 102, 95-107.	4.0	49
58	Local Selection Across a Latitudinal Gradient Shapes Nucleotide Diversity in Balsam Poplar, <i>Populus balsamifera</i> L. Genetics, 2011, 188, 941-952.	2.9	47
59	Comparative Evolutionary Histories of Chitinase Genes in the Genus <i>Zea</i> and Family Poaceae Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY532721, AY532722, AY532723, AY532724, AY532725, AY532726, AY532727, AY532728, AY532729, AY532730, AY532731, AY532732, AY532733, AY532734, AY532735, AY532736, AY532737, AY532738, AY532739, AY532740, AY532741, AY532742, AY532743, AY532744, AY532745, AY532746, AY532747, AY532748, AY532749, AY532750, AY532751, AY5. Genetics, 2004, 167, 1331-1340.	2.9	44
60	Population Genetics and the Evolution of Geographic Range Limits in an Annual Plant. American Naturalist, 2011, 178, S44-S57.	2.1	44
61	Transgenerational effects of global environmental change: long-term CO ₂ and nitrogen treatments influence offspring growth response to elevated CO ₂ . Oecologia, 2008, 158, 141-150.	2.0	41
62	Sequence Diversity in the Tetraploid <i>Zea perennis</i> and the Closely Related Diploid <i>Z. diploperennis</i> : Insights From Four Nuclear Loci. Genetics, 2001, 158, 401-412.	2.9	41
63	Transcriptomic basis of genome by genome variation in a legume-rhizobia mutualism. Molecular Ecology, 2017, 26, 6122-6135.	3.9	40
64	Sex-biased gene expression in flowers, but not leaves, reveals secondary sexual dimorphism in <i>Populus balsamifera</i> . New Phytologist, 2019, 221, 527-539.	7.3	38
65	Strong ecological but weak evolutionary effects of elevated CO ₂ on a recombinant inbred population of <i>Arabidopsis thaliana</i> . New Phytologist, 2007, 175, 351-362.	7.3	37
66	GEOGRAPHIC VARIATION IN ADAPTATION AT THE MOLECULAR LEVEL: A CASE STUDY OF PLANT IMMUNITY GENES. Evolution; International Journal of Organic Evolution, 2008, 62, 3069-3081.	2.3	37
67	Adaptation to climate through flowering phenology: a case study in <i>Medicago truncatula</i> . Molecular Ecology, 2016, 25, 3397-3415.	3.9	36
68	Population Genetic Evidence for Rapid Changes in Intraspecific Diversity and Allelic Cycling of a Specialist Defense Gene in <i>Zea</i> Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY320258, AY320280, AY52550, AY52551, AY52552, AY52553, AY52554, AY52555, AY52556, AY52557, AY52558, AY52559, and AY549598, AY549599, AY549600, AY549601, AY549602, AY549603, AY549604, AY549605, AY549606, AY549607, AY549608, AY549609, AY549610, AY549611, AY549612, AY549613, AY5. Genetics, 2004, 168, 425-434.	2.9	34
69	Climate change is predicted to disrupt patterns of local adaptation in wild and cultivated maize. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190486.	2.6	32
70	Genetic Diversity and the Evolutionary History of Plant Immunity Genes in Two Species of <i>Zea</i> . Molecular Biology and Evolution, 2005, 22, 2480-2490.	8.9	31
71	Indirect effects drive evolutionary responses to global change. New Phytologist, 2014, 201, 335-343.	7.3	31
72	Pleiotropy facilitates local adaptation to distant optima in common ragweed (<i>Ambrosia</i>) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 62 Td (art	3.5	30

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73	Selective histories of poplar protease inhibitors: elevated polymorphism, purifying selection, and positive selection driving divergence of recent duplicates. <i>New Phytologist</i> , 2009, 183, 740-750.	7.3	29
74	Control of expression patterns of anthocyanin structural genes by two loci in the common morning glory.. <i>Genes and Genetic Systems</i> , 1998, 73, 105-110.	0.7	28
75	DIRECT AND INDIRECT EFFECTS OF CO ₂ , NITROGEN, AND COMMUNITY DIVERSITY ON PLANT-ENEMY INTERACTIONS. <i>Ecology</i> , 2008, 89, 226-236.	3.2	28
76	Interactions between Soil Habitat and Geographic Range Location Affect Plant Fitness. <i>PLoS ONE</i> , 2012, 7, e36015.	2.5	28
77	Genome-Wide Association Analyses in the Model Rhizobium <i>Ensifer meliloti</i> . <i>MSphere</i> , 2018, 3, .	2.9	26
78	Elevated carbon dioxide concentrations indirectly affect plant fitness by altering plant tolerance to herbivory. <i>Oecologia</i> , 2009, 161, 401-410.	2.0	24
79	Gene Expression Modularity Reveals Footprints of Polygenic Adaptation in <i>Theobroma cacao</i> . <i>Molecular Biology and Evolution</i> , 2020, 37, 110-123.	8.9	22
80	Sequence diversity and haplotype associations with phenotypic responses to crowding: <i>GIGANTEA</i> affects fruit set in <i>Arabidopsis thaliana</i> . <i>Molecular Ecology</i> , 2007, 16, 3050-3062.	3.9	21
81	The complete replicons of 16 <i>Ensifer meliloti</i> strains offer insights into intra- and inter-replicon gene transfer, transposon-associated loci, and repeat elements. <i>Microbial Genomics</i> , 2018, 4, .	2.0	21
82	Legacy of prior host and soil selection on rhizobial fitness in <i>planta</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 2013-2023.	2.3	19
83	Selection on Horizontally Transferred and Duplicated Genes in <i>Sinorhizobium</i> (<i>Ensifer</i>), the Root-Nodule Symbionts of <i>Medicago</i> . <i>Genome Biology and Evolution</i> , 2014, 6, 1199-1209.	2.5	17
84	Effects of Gene Action, Marker Density, and Timing of Selection on the Performance of Landscape Genomic Scans of Local Adaptation. <i>Journal of Heredity</i> , 2018, 109, 16-28.	2.4	17
85	The quest for adaptive evolution: a theoretical challenge in a maze of data. <i>Current Opinion in Plant Biology</i> , 2008, 11, 110-115.	7.1	16
86	Widely distributed variation in tolerance to <i>Phytophthora palmivora</i> in four genetic groups of cacao. <i>Tree Genetics and Genomes</i> , 2020, 16, 1.	1.6	15
87	Biased Gene Conversion Constrains Adaptation in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2020, 215, 831-846.	2.9	15
88	Response of Corn Grain Yield to Early and Late Killed Red Clover Green Manure and Subirrigation. <i>Journal of Production Agriculture</i> , 1998, 11, 112-121.	0.4	13
89	ODG: Omics database generator - a tool for generating, querying, and analyzing multi-omics comparative databases to facilitate biological understanding. <i>BMC Bioinformatics</i> , 2017, 18, 367.	2.6	13
90	A Select and Resequence Approach Reveals Strain-Specific Effects of <i>Medicago</i> Nodule-Specific PLAT-Domain Genes. <i>Plant Physiology</i> , 2020, 182, 463-471.	4.8	13

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91	Comparative genomics reveals high rates of horizontal transfer and strong purifying selection on rhizobial symbiosis genes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20201804.	2.6	13
92	Insights from population genetics for range limits of a widely distributed native plant. <i>American Journal of Botany</i> , 2013, 100, 744-753.	1.7	12
93	MEASURING TOLERANCE TO HERBIVORY: ACCURACY AND PRECISION OF ESTIMATES MADE USING NATURAL VERSUS IMPOSED DAMAGE. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1024.	2.3	11
94	MEASURING TOLERANCE TO HERBIVORY WITH NATURAL OR IMPOSED DAMAGE: A REPLY TO LEHTILÄ,.. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 681.	2.3	11
95	Does adaptation to historical climate shape plant responses to future rainfall patterns? A rainfall manipulation experiment with common ragweed. <i>Oecologia</i> , 2019, 190, 941-953.	2.0	11
96	An integrated approach for the comparative analysis of a multigene family: The nicotianamine synthase genes of barley. <i>Functional and Integrative Genomics</i> , 2007, 7, 169-179.	3.5	10
97	Sanctions, Partner Recognition, and Variation in Mutualism. <i>American Naturalist</i> , 2017, 190, 491-505.	2.1	10
98	Timing for success: expression phenotype and local adaptation related to latitude in the boreal forest tree, <i>Populus balsamifera</i> . <i>Tree Genetics and Genomes</i> , 2014, 10, 911-922.	1.6	7
99	MEASURING TOLERANCE TO HERBIVORY WITH NATURAL OR IMPOSED DAMAGE: A REPLY TO LEHTILÄ... <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 681-682.	2.3	5
100	Individual-based eco-evolutionary models for understanding adaptation in changing seas. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20212006.	2.6	4
101	Unraveling coevolutionary dynamics using ecological genomics. <i>Trends in Genetics</i> , 2022, 38, 1003-1012.	6.7	4