John R Stinchcombe

List of Publications by Year
in descending order

108	7,481	66234 42	62479 80
papers	citations	h-index	g-index

129	129	129	8173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Combining population genomics and quantitative genetics: finding the genes underlying ecologically important traits. Heredity, 2008, 100, 158-170.	1.2	534
2	A latitudinal cline in flowering time in Arabidopsis thaliana modulated by the flowering time gene FRIGIDA. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4712-4717.	3.3	458
3	ESTIMATING NONLINEAR SELECTION GRADIENTS USING QUADRATIC REGRESSION COEFFICIENTS: DOUBLE OR NOTHING?. Evolution; International Journal of Organic Evolution, 2008, 62, 2435-2440.	1.1	425
4	An emerging synthesis between community ecology and evolutionary biology. Trends in Ecology and Evolution, 2007, 22, 250-257.	4.2	391
5	An atlas of over 90,000 conserved noncoding sequences provides insight into crucifer regulatory regions. Nature Genetics, 2013, 45, 891-898.	9.4	350
6	Epistatic interaction between Arabidopsis FRI and FLC flowering time genes generates a latitudinal cline in a life history trait. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15670-15675.	3.3	336
7	How much do genetic covariances alter the rate of adaptation?. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1183-1191.	1.2	240
8	Testing for Environmentally Induced Bias in Phenotypic Estimates of Natural Selection: Theory and Practice. American Naturalist, 2002, 160, 511-523.	1.0	219
9	The Adaptive Evolution of Plasticity: Phytochrome-Mediated Shade Avoidance Responses. Integrative and Comparative Biology, 2003, 43, 459-469.	0.9	178
10	Genetics and evolution of function-valued traits: understanding environmentally responsive phenotypes. Trends in Ecology and Evolution, 2012, 27, 637-647.	4.2	176
11	Evolution of plant resistance and tolerance to frost damage. Ecology Letters, 2004, 7, 1199-1208.	3.0	154
12	Fitness Effects Associated with the Major Flowering Time Gene FRIGIDA in Arabidopsis thaliana in the Field. American Naturalist, 2007, 169, E141-E157.	1.0	151
13	Diffuse Selection on Resistance to Deer Herbivory in the Ivyleaf Morning Glory,Ipomoea hederacea. American Naturalist, 2001, 158, 376-388.	1.0	141
14	EXPLAINING MUTUALISM VARIATION: A NEW EVOLUTIONARY PARADOX?. Evolution; International Journal of Organic Evolution, 2014, 68, 309-317.	1.1	126
15	POPULATION VIABILITY ANALYSIS IN ENDANGERED SPECIES RECOVERY PLANS: PAST USE AND FUTURE IMPROVEMENTS. , 2002, 12, 708-712.		110
16	Temporal patterns of damage and decay kinetics of DNA retrieved from plant herbarium specimens. Royal Society Open Science, 2016, 3, 160239.	1.1	108
17	Linkage Disequilibrium Mapping of Arabidopsis CRY2 Flowering Time AllelesSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY576055, AY576271.. Genetics, 2004, 167, 1361-1369.	1.2	106
18	Repeated Evolutionary Changes of Leaf Morphology Caused by Mutations to a Homeobox Gene. Current Biology, 2014, 24, 1880-1886.	1.8	105

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19	EVOLUTIONARY GENETICS OF RESISTANCE AND TOLERANCE TO NATURAL HERBIVORY IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2003, 57, 1270-1280.	1.1	98
20	Multiple modes of convergent adaptation in the spread of glyphosate-resistant <i>Amaranthus tuberculatus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21076-21084.	3.3	98
21	The evolution of tolerance to deer herbivory: modifications caused by the abundance of insect herbivores. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1241-1246.	1.2	92
22	Association mapping reveals the role of purifying selection in the maintenance of genomic variation in gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15390-15395.	3.3	92
23	Evolution in plant populations as a driver of ecological changes in arthropod communities. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1593-1605.	1.8	91
24	Mutualism variation in the nodulation response to nitrate. Journal of Evolutionary Biology, 2010, 23, 2494-2500.	0.8	89
25	QTL architecture of resistance and tolerance traits in Arabidopsis thaliana in natural environments. Molecular Ecology, 2003, 12, 1153-1163.	2.0	85
26	Divergent sorting of a balanced ancestral polymorphism underlies the establishment of gene-flow barriers in Capsella. Nature Communications, 2015, 6, 7960.	5.8	81
27	Population Genomics of Herbicide Resistance: Adaptation via Evolutionary Rescue. Annual Review of Plant Biology, 2018, 69, 611-635.	8.6	80
28	Explaining the apparent paradox of persistent selection for early flowering. New Phytologist, 2017, 215, 929-934.	3.5	79
29	What can genomeâ€wide association studies tell us about the evolutionary forces maintaining genetic variation for quantitative traits?. New Phytologist, 2017, 214, 21-33.	3.5	75
30	Relationships between ecological interaction modifications and diffuse coevolution: similarities, differences, and causal links. Oikos, 2001, 95, 353-360.	1.2	71
31	Longitudinal trends in climate drive flowering time clines in North American <i>Arabidopsis thaliana</i>. Ecology and Evolution, 2012, 2, 1162-1180.	0.8	65
32	Flowering time plasticity in Arabidopsis thaliana: a reanalysis of Westerman & Lawrence (1970). Journal of Evolutionary Biology, 2003, 17, 197-207.	0.8	64
33	DISCORDANT LONGITUDINAL CLINES IN FLOWERING TIME ANDPHYTOCHROME CINARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2008, 62, 2971-2983.	1.1	62
34	A latitudinal cline and response to vernalization in leaf angle and morphology in<i>Arabidopsis thaliana</i>(Brassicaceae). New Phytologist, 2008, 179, 155-164.	3.5	60
35	A multivariate view of the evolution of sexual dimorphism. Journal of Evolutionary Biology, 2013, 26, 2070-2080.	0.8	59
36	Vernalization sensitivity in <i>Arabidopsis thaliana</i> (Brassicaceae): the effects of latitude and FLC variation. American Journal of Botany, 2005, 92, 1701-1707.	0.8	56

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37	Natural selection maintains a singleâ€locus leaf shape cline in Ivyleaf morning glory, <i><scp>I</scp>pomoea hederacea</i>. Molecular Ecology, 2013, 22, 552-564.	2.0	54
38	Identifying the genes underlying quantitative traits: a rationale for the QTN programme. AoB PLANTS, 2014, 6, .	1.2	54
39	Coevolutionary genetic variation in the legumeâ€rhizobium transcriptome. Molecular Ecology, 2012, 21, 4735-4747.	2.0	53
40	Quantifying Evolutionary Genetic Constraints in the Ivyleaf Morning Glory,<i>Ipomoea hederacea</i>. International Journal of Plant Sciences, 2010, 171, 972-986.	0.6	52
41	Herbivory eliminates fitness costs of mutualism exploiters. New Phytologist, 2014, 202, 651-661.	3.5	52
42	Multiple mutualist effects on genomewide expression in the tripartite association between <i>Medicago truncatula,</i> nitrogenâ€fixing bacteria and mycorrhizal fungi. Molecular Ecology, 2016, 25, 4946-4962.	2.0	51
43	Standing genetic variation in a tissue-specific enhancer underlies selfing-syndrome evolution in <i>Capsella</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13911-13916.	3.3	50
44	Intraspecific variation in the strength of density dependence in aphid populations. Ecological Entomology, 2004, 29, 521-526.	1.1	48
45	Standing genetic variation in host preference for mutualist microbial symbionts. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20142036.	1.2	47
46	ESTIMATING UNCERTAINTY IN MULTIVARIATE RESPONSES TO SELECTION. Evolution; International Journal of Organic Evolution, 2014, 68, 1188-1196.	1.1	44
47	Genetic conflict with a parasitic nematode disrupts the legumeâ€“rhizobia mutualism. Evolution Letters, 2018, 2, 233-245.	1.6	42
48	Parental legacy, demography, and admixture influenced the evolution of the two subgenomes of the tetraploid Capsella bursa-pastoris (Brassicaceae). PLoS Genetics, 2019, 15, e1007949.	1.5	42
49	The Relationship between Selection, Network Connectivity, and Regulatory Variation within a Population of Capsella grandiflora. Genome Biology and Evolution, 2017, 9, 1099-1109.	1.1	41
50	Leaf variegation is associated with reduced herbivore damage in Hydrophyllum virginianum. Botany, 2008, 86, 306-313.	0.5	40
51	ENVIRONMENTAL DEPENDENCY IN THE EXPRESSION OF COSTS OF TOLERANCE TO DEER HERBIVORY. Evolution; International Journal of Organic Evolution, 2002, 56, 1063-1067.	1.1	39
52	ACROSS-ENVIRONMENT GENETIC CORRELATIONS AND THE FREQUENCY OF SELECTIVE ENVIRONMENTS SHAPE THE EVOLUTIONARY DYNAMICS OF GROWTH RATE IN IMPATIENS CAPENSIS. Evolution; International Journal of Organic Evolution, 2010, 64, no-no.	1.1	38
53	Can tolerance traits impose selection on herbivores?. Evolutionary Ecology, 2002, 16, 595-602.	0.5	37
54	Natural selection on light response curve parameters in the herbaceous annual, Impatiens capensis. Oecologia, 2004, 139, 487-494.	0.9	36

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55	Transposable Elements Are Important Contributors to Standing Variation in Gene Expression in Capsella Grandiflora. Molecular Biology and Evolution, 2019, 36, 1734-1745.	3.5	34
56	Interspecific competition alters natural selection on shade avoidance phenotypes in<i> Impatiens capensis</i>. New Phytologist, 2009, 183, 880-891.	3.5	32
57	The remarkable morphological diversity of leaf shape in sweet potato (<i>Ipomoea batatas</i>): the influence of genetics, environment, and GÃ—E. New Phytologist, 2020, 225, 2183-2195.	3.5	32
58	A note on measuring natural selection on principal component scores. Evolution Letters, 2018, 2, 272-280.	1.6	30
59	Reduced plant competition among kin can be explained by Jensen's inequality. Ecology and Evolution, 2014, 4, 4454-4466.	0.8	29
60	More partners, more ranges: generalist legumes spread more easily around the globe. Biology Letters, 2018, 14, 20180616.	1.0	29
61	Ecosystem engineers as selective agents: the effects of leaf litter on emergence time and early growth in Impatiens capensis. Ecology Letters, 2006, 9, 258-270.	3.0	28
62	Polymorphic Genes of Major Effect: Consequences for Variation, Selection and Evolution in <i>Arabidopsis thaliana</i>. Genetics, 2009, 182, 911-922.	1.2	28
63	Quantitative genetic variance and multivariate clines in the Ivyleaf morning glory, <i>Ipomoea hederacea</i>. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130259.	1.8	28
64	Floral Genetic Architecture: An Examination of QTL Architecture Underlying Floral (Co)Variation Across Environments. Genetics, 2010, 186, 1451-1465.	1.2	27
65	Morning glory as a powerful model in ecological genomics: tracing adaptation through both natural and artificial selection. Heredity, 2011, 107, 377-385.	1.2	27
66	Short-term fertilizer application alters phenotypic traits of symbiotic nitrogen fixing bacteria. PeerJ, 2015, 3, e1291.	0.9	27
67	Nitrogen addition does not influence preâ€infection partner choice in the legumeâ€“rhizobium symbiosis. American Journal of Botany, 2016, 103, 1763-1770.	0.8	26
68	Geographically structured genetic variation in the<i>Medicago lupulina</i>â€“<i>Ensifer</i>mutualism. Evolution; International Journal of Organic Evolution, 2017, 71, 1787-1801.	1.1	25
69	The Influence of the Academic Conservation Biology Literature on Endangered Species Recovery Planning. Ecology and Society, 2002, 6, .	0.9	25
70	Population genomic scans suggest novel genes underlie convergent flowering time evolution in the introduced range of <i>Arabidopsis thaliana</i>. Molecular Ecology, 2017, 26, 92-106.	2.0	24
71	No evidence for adaptation to local rhizobial mutualists in the legume <i>Medicago lupulina</i>. Ecology and Evolution, 2017, 7, 4367-4376.	0.8	24
72	Measuring Natural Selection on Proportional Traits: Comparisons of Three Types of Selection Estimates for Resistance and Susceptibility to Herbivore Damage. Evolutionary Ecology, 2005, 19, 363-373.	0.5	22

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73	Parallel flowering time clines in native and introduced ragweed populations are likely due to adaptation. Ecology and Evolution, 2020, 10, 4595-4608.	0.8	22
74	The genetic architecture and population genomic signatures of glyphosate resistance in <i>Amaranthus tuberculatus</i>. Molecular Ecology, 2021, 30, 5373-5389.	2.0	22
75	Indirect effects of <i>FRIGIDA</i>: floral trait (co)variances are altered by seasonally variable abiotic factors associated with flowering time. Journal of Evolutionary Biology, 2009, 22, 1826-1838.	0.8	21
76	Mapping the Genetic Basis of Symbiotic Variation in Legume-Rhizobium Interactions in<i>Medicago truncatula</i>. G3: Genes, Genomes, Genetics, 2012, 2, 1291-1303.	0.8	21
77	Cooperation and coexpression: How coexpression networks shift in response to multiple mutualists. Molecular Ecology, 2018, 27, 1860-1873.	2.0	21
78	Environmental variation impacts trait expression and selection in the legumeâ€“rhizobium symbiosis. American Journal of Botany, 2020, 107, 195-208.	0.8	21
79	Fitness consequences of cotyledon and mature-leaf damage in the ivyleaf morning glory. Oecologia, 2002, 131, 220-226.	0.9	19
80	Quantitative genetic variance in experimental fly populations evolving with or without environmental heterogeneity. Evolution; International Journal of Organic Evolution, 2015, 69, 2735-2746.	1.1	19
81	Multiple Mutualism Effects generate synergistic selection and strengthen fitness alignment in the interaction between legumes, rhizobia and mycorrhizal fungi. Ecology Letters, 2021, 24, 1824-1834.	3.0	18
82	Genetic Variation, Simplicity, and Evolutionary Constraints for Function-Valued Traits. American Naturalist, 2015, 185, E166-E181.	1.0	15
83	Testing potential selective agents acting on leaf shape in <i><scp>I</scp>pomoea hederacea</i>: predictions based on an adaptive leaf shape cline. Ecology and Evolution, 2013, 3, 2409-2423.	0.8	14
84	Leaf shape variation and herbivore consumption and performance: a case study with Ipomoea hederacea and three generalists. Arthropod-Plant Interactions, 2008, 2, 9-19.	0.5	13
85	The effect of leaf shape on the thermoregulation and frost tolerance of an annual vine, <i>Ipomoea hederacea</i> (Convolvulaceae). American Journal of Botany, 2013, 100, 2175-2182.	0.8	13
86	The Evolutionary Forces Shaping Cis- and Trans-Regulation of Gene Expression within a Population of Outcrossing Plants. Molecular Biology and Evolution, 2020, 37, 2386-2393.	3.5	13
87	Priority effects alter interaction outcomes in a legumeâ€“rhizobium mutualism. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202753.	1.2	13
88	ECOLOGICAL GENOMICS OF MODEL EUKARYOTES¹. Evolution; International Journal of Organic Evolution, 2008, 62, 2953-2957.	1.1	12
89	Cross-pollination of plants and animals: wild quantitative genetics and plant evolutionary genetics. , 2014, , 128-146.		12
90	Repeated origins, widespread gene flow, and allelic interactions of target-site herbicide resistance mutations. ELife, 2022, 11, .	2.8	11

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91	Individual chambers for controlling crosses in windâ€pollinated plants. Methods in Ecology and Evolution, 2017, 8, 887-891.	2.2	10
92	Introduced populations of ragweed show as much evolutionary potential as native populations. Evolutionary Applications, 2021, 14, 1436-1449.	1.5	10
93	Induced responses in Ipomoea hederacea: simulated mammalian herbivory induces resistance and susceptibility to insect herbivores. Arthropod-Plant Interactions, 2007, 1, 129-136.	0.5	9
94	Population Dynamics and Evolutionary History of the Weedy Vine<i>Ipomoea hederacea</i>in North America. G3: Genes, Genomes, Genetics, 2014, 4, 1407-1416.	0.8	9
95	Evaluating Population Genomic Candidate Genes Underlying Flowering Time in Arabidopsis thaliana Using T-DNA Insertion Lines. Journal of Heredity, 2019, 110, 445-454.	1.0	9
96	Water availability as an agent of selection in introduced populations of<i>Arabidopsis thaliana</i>: impacts on flowering time evolution. PeerJ, 2015, 3, e898.	0.9	9
97	EVOLUTIONARY GENETICS OF RESISTANCE AND TOLERANCE TO NATURAL HERBIVORY IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2003, 57, 1270.	1.1	8
98	(2786) Proposal to change the conserved type of <i>Ipomoea</i>, nom. cons. (<i>Convolvulaceae</i>). Taxon, 2020, 69, 1369-1371.	0.4	8
99	Selective ancestral sorting and de novo evolution in the agricultural invasion of <i>Amaranthus tuberculatus</i>. Evolution; International Journal of Organic Evolution, 2022, 76, 70-85.	1.1	8
100	A window into the transcriptomic basis of genotypeâ€byâ€genotype interactions in the legumeâ€“rhizobia mutualism. Molecular Ecology, 2017, 26, 5869-5871.	2.0	7
101	Population climatic history predicts phenotypic responses in novel environments for Arabidopsis thaliana in North America. American Journal of Botany, 2019, 106, 1068-1080.	0.8	7
102	The Potential for Genotype-by-Environment Interactions to Maintain Genetic Variation in a Model Legumeâ€“Rhizobia Mutualism. Plant Communications, 2020, 1, 100114.	3.6	7
103	Population genomics of parallel adaptation. Molecular Ecology, 2020, 29, 4033-4036.	2.0	7
104	Early Developmental Responses to Seedling Environment Modulate Later Plasticity to Light Spectral Quality. PLoS ONE, 2012, 7, e34121.	1.1	6
105	Selection on Accessible Chromatin Regions in<i>Capsella grandiflora</i>. Molecular Biology and Evolution, 2021, 38, 5563-5575.	3.5	6
106	Visualizing genetic constraints. Annals of Applied Statistics, 2013, 7, .	0.5	5
107	ENVIRONMENTAL DEPENDENCY IN THE EXPRESSION OF COSTS OF TOLERANCE TO DEER HERBIVORY. Evolution; International Journal of Organic Evolution, 2002, 56, 1063.	1.1	4
108	How to measure natural selection. Methods in Ecology and Evolution, 2017, 8, 660-662.	2.2	2