Stephen I Wright

List of Publications by Year in descending order

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127 papers 13,355 citations

53 h-index 25716 108 g-index

173 all docs

173 docs citations

173 times ranked

12987 citing authors

#	Article	IF	CITATIONS
1	The map-based sequence of the rice genome. Nature, 2005, 436, 793-800.	13.7	3,365
2	The Effects of Artificial Selection on the Maize Genome. Science, 2005, 308, 1310-1314.	6.0	742
3	The butterfly plant arms-race escalated by gene and genome duplications. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8362-8366.	3.3	458
4	The Capsella rubella genome and the genomic consequences of rapid mating system evolution. Nature Genetics, 2013, 45, 831-835.	9.4	374
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	Evolutionary consequences of self-fertilization in plants. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130133.	1.2	346
7	Breeding systems and genome evolution. Current Opinion in Genetics and Development, 2001, 11, 685-690.	1.5	329
8	Molecular Population Genetics and the Search for Adaptive Evolution in Plants. Molecular Biology and Evolution, 2005, 22, 506-519.	3.5	301
9	Recent speciation associated with the evolution of selfing in <i>Capsella</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5241-5245.	3.3	245
10	Transposon diversity in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7376-7381.	3.3	232
11	Recombination: an underappreciated factor in the evolution of plant genomes. Nature Reviews Genetics, 2007, 8, 77-84.	7.7	223
12	Coevolution between transposable elements and recombination. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160458.	1.8	214
13	Genomic Consequences of Outcrossing and Selfing in Plants. International Journal of Plant Sciences, 2008, 169, 105-118.	0.6	198
14	Effects of Recombination Rate and Gene Density on Transposable Element Distributions in <i>Arabidopsis thaliana</i> . Genome Research, 2003, 13, 1897-1903.	2.4	186
15	Rates and Patterns of Molecular Evolution in Inbred and Outbred Arabidopsis. Molecular Biology and Evolution, 2002, 19, 1407-1420.	3.5	180
16	The HKA Test Revisited. Genetics, 2004, 168, 1071-1076.	1.2	179
17	Patterns of Polymorphism and Demographic History in Natural Populations of Arabidopsis lyrata. PLoS ONE, 2008, 3, e2411.	1.1	163
18	Genome-Wide Evidence for Efficient Positive and Purifying Selection in Capsella grandiflora, a Plant Species with a Large Effective Population Size. Molecular Biology and Evolution, 2010, 27, 1813-1821.	3.5	153

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19	Effects of Gene Expression on Molecular Evolution in Arabidopsis thaliana and Arabidopsis lyrata. Molecular Biology and Evolution, 2004, 21, 1719-1726.	3.5	132
20	Subdivision and haplotype structure in natural populations of Arabidopsis lyrata. Molecular Ecology, 2003, 12, 1247-1263.	2.0	131
21	Evidence for Widespread Positive and Negative Selection in Coding and Conserved Noncoding Regions of Capsella grandiflora. PLoS Genetics, 2014, 10, e1004622.	1.5	128
22	Hybrid origins and the earliest stages of diploidization in the highly successful recent polyploid <i>Capsella bursa-pastoris</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2806-2811.	3.3	128
23	Genetic degeneration of old and young Y chromosomes in the flowering plant <i>Rumex hastatulus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7713-7718.	3.3	120
24	Population Dynamics of an <i>Ac</i> -like Transposable Element in Self- and Cross-Pollinating Arabidopsis. Genetics, 2001, 158, 1279-1288.	1.2	116
25	Transposon dynamics and the breeding system. , 1999, 107, 139-148.		107
26	<i>Mutator</i> -like Elements in <i>Arabidopsis thaliana</i> : Structure, Diversity and Evolution. Genetics, 2000, 156, 2019-2031.	1.2	106
27	The population genomics of plant adaptation. New Phytologist, 2010, 188, 313-332.	3.5	105
28	Repeated Evolutionary Changes of Leaf Morphology Caused by Mutations to a Homeobox Gene. Current Biology, 2014, 24, 1880-1886.	1.8	105
29	RECONSTRUCTING ORIGINS OF LOSS OF SELF-INCOMPATIBILITY AND SELFING IN NORTH AMERICAN ARABIDOPSIS LYRATA: A POPULATION GENETIC CONTEXT. Evolution; International Journal of Organic Evolution, 2010, 64, 3495-3510.	1.1	101
30	The Evolution of Selfing Is Accompanied by Reduced Efficacy of Selection and Purging of Deleterious Mutations. Genetics, 2015, 199, 817-829.	1.2	100
31	Genomic Determinants of Protein Evolution and Polymorphism in Arabidopsis. Genome Biology and Evolution, 2011, 3, 1210-1219.	1.1	98
32	The Limits of Natural Selection in a Nonequilibrium World. Trends in Genetics, 2016, 32, 201-210.	2.9	98
33	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
34	The Impact of Natural Selection on the Genome: Emerging Patterns in <i>Drosophila</i> and <i>Arabidopsis</i> Annual Review of Ecology, Evolution, and Systematics, 2008, 39, 193-213.	3.8	97
35	The <i>ARC1</i> E3 Ligase Gene Is Frequently Deleted in Self-Compatible Brassicaceae Species and Has a Conserved Role in <i>Arabidopsis lyrata</i> Self-Pollen Rejection. Plant Cell, 2012, 24, 4607-4620.	3.1	94
36	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

3

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37	Pollen-Specific, but Not Sperm-Specific, Genes Show Stronger Purifying Selection and Higher Rates of Positive Selection Than Sporophytic Genes in Capsella grandiflora. Molecular Biology and Evolution, 2013, 30, 2475-2486.	3.5	90
38	Genome evolution: Sex and the transposable element. Current Biology, 2001, 11, R296-R299.	1.8	89
39	Does Speciation between Arabidopsis halleri and Arabidopsis lyrata Coincide with Major Changes in a Molecular Target of Adaptation?. PLoS ONE, 2011, 6, e26872.	1.1	87
40	Genomic Identification of Founding Haplotypes Reveals the History of the Selfing Species Capsella rubella. PLoS Genetics, 2013, 9, e1003754.	1.5	86
41	The demography and population genomics of evolutionary transitions to self-fertilization in plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130344.	1.8	86
42	Reduced Efficacy of Natural Selection on Codon Usage Bias in Selfing Arabidopsis and Capsella Species. Genome Biology and Evolution, 2011, 3, 868-880.	1.1	85
43	Recurrent Loss of Sex Is Associated with Accumulation of Deleterious Mutations in Oenothera. Molecular Biology and Evolution, 2015, 32, 896-905.	3.5	82
44	Divergent sorting of a balanced ancestral polymorphism underlies the establishment of gene-flow barriers in Capsella. Nature Communications, 2015, 6, 7960.	5.8	81
45	Population Genomics of Herbicide Resistance: Adaptation via Evolutionary Rescue. Annual Review of Plant Biology, 2018, 69, 611-635.	8.6	80
46	Mating-System Variation, Demographic History and Patterns of Nucleotide Diversity in the Tristylous Plant <i>Eichhornia paniculata</i>	1.2	79
47	GENETIC ARCHITECTURE AND ADAPTIVE SIGNIFICANCE OF THE SELFING SYNDROME IN <i>CAPSELLA</i> Evolution; International Journal of Organic Evolution, 2012, 66, 1360-1374.	1.1	79
48	Co-evolution between transposable elements and their hosts: a major factor in genome size evolution?. Chromosome Research, 2011, 19, 777-786.	1.0	77
49	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
50	Selection on Amino Acid Substitutions in Arabidopsis. Molecular Biology and Evolution, 2008, 25, 1375-1383.	3.5	71
51	Genomic Screening for Artificial Selection during Domestication and Improvement in Maize. Annals of Botany, 2007, 100, 967-973.	1.4	70
52	Long-term balancing selection drives evolution of immunity genes in Capsella. ELife, 2019, 8, .	2.8	69
53	Testing for Effects of Recombination Rate on Nucleotide Diversity in Natural Populations of Arabidopsis lyrata. Genetics, 2006, 174, 1421-1430.	1.2	64
54	Size-dependent gender modification in a hermaphroditic perennial herb. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 225-232.	1.2	62

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55	Mating system shifts and transposable element evolution in the plant genus Capsella. BMC Genomics, 2014, 15, 602.	1.2	61
56	Claudin-3 tight junction proteins inTetraodon nigroviridis: cloning, tissue-specific expression, and a role in hydromineral balance. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1638-R1647.	0.9	59
57	Mutation Accumulation in an Asexual Relative of Arabidopsis. PLoS Genetics, 2017, 13, e1006550.	1.5	54
58	Patterns of Selection in Plant Genomes. Annual Review of Ecology, Evolution, and Systematics, 2013, 44, 31-49.	3.8	53
59	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
60	Purifying and Positive Selection Influence Patterns of Gene Loss and Gene Expression in the Evolution of a Plant Sex Chromosome System. Molecular Biology and Evolution, 2017, 34, 1140-1154.	3.5	50
61	Genome-Wide Patterns of Genetic Variation within and among Alternative Selective Regimes. PLoS Genetics, 2014, 10, e1004527.	1.5	49
62	Spontaneous Chloroplast Mutants Mostly Occur by Replication Slippage and Show a Biased Pattern in the Plastome of <i>Oenothera</i> . Plant Cell, 2016, 28, 911-929.	3.1	49
63	Genomic signature of successful colonization of Eurasia by the allopolyploid shepherd's purse (<i>Capsella bursaâ€pastoris</i>). Molecular Ecology, 2016, 25, 616-629.	2.0	48
64	The problem of estimating recent genetic connectivity in a changing world. Conservation Biology, 2017, 31, 126-135.	2.4	48
65	Selective Constraints on Codon Usage of Nuclear Genes from Arabidopsis thaliana. Molecular Biology and Evolution, 2006, 24, 122-129.	3.5	43
66	Repeated Inactivation of the First Committed Enzyme Underlies the Loss of Benzaldehyde Emission after the Selfing Transition in Capsella. Current Biology, 2016, 26, 3313-3319.	1.8	43
67	Population genomics of the facultatively asexual duckweed <i>Spirodela polyrhiza</i> Phytologist, 2019, 224, 1361-1371.	3 . 5	43
68	Claudin-8 and -27 tight junction proteins in puffer fish Tetraodon nigroviridis acclimated to freshwater and seawater. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 419-431.	0.7	42
69	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
70	Widespread Recombination Suppression Facilitates Plant Sex Chromosome Evolution. Molecular Biology and Evolution, 2021, 38, 1018-1030.	3 . 5	42
71	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
72	No evidence that sex and transposable elements drive genome size variation in evening primroses. Evolution; International Journal of Organic Evolution, 2015, 69, 1053-1062.	1.1	40

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73	COMPARATIVE POPULATION GENOMICS INCOLLINSIASISTER SPECIES REVEALS EVIDENCE FOR REDUCED EFFECTIVE POPULATION SIZE, RELAXED SELECTION, AND EVOLUTION OF BIASED GENE CONVERSION WITH AN ONGOING MATING SYSTEM SHIFT. Evolution; International Journal of Organic Evolution, 2012, 67, no-no.	1.1	36
74	The influence of population structure on gene expression and flowering time variation in the ubiquitous weed ⟨i⟩⟨scp⟩C⟨/scp⟩apsella bursaâ€pastoris⟨/i⟩ (Brassicaceae). Molecular Ecology, 2016, 25, 1106-1121.	2.0	36
75	Coalescent Times and Patterns of Genetic Diversity in Species with Facultative Sex: Effects of Gene Conversion, Population Structure, and Heterogeneity. Genetics, 2016, 202, 297-312.	1.2	35
76	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
77	Signatures of balancing selection are maintained at disease resistance loci following mating system evolution and a population bottleneck in the genus Capsella. BMC Evolutionary Biology, 2012, 12, 152.	3.2	32
78	Effective population size and tests of neutrality at cytoplasmic genes in <i>Arabidopsis</i> Research, 2008, 90, 119-128.	0.3	31
79	Hill-Robertson Interference Reduces Genetic Diversity on a Young Plant Y-Chromosome. Genetics, 2017, 207, 685-695.	1.2	30
80	Contrasting Patterns of Transposable-Element Insertion Polymorphism and Nucleotide Diversity in Autotetraploid and Allotetraploid Arabidopsis Species. Genetics, 2008, 179, 581-592.	1.2	29
81	Coalescent-Based Analysis Distinguishes between Allo- and Autopolyploid Origin in Shepherd's Purse (Capsella bursa-pastoris). Molecular Biology and Evolution, 2012, 29, 1721-1733.	3 . 5	29
82	Evolutionary Genomics of Plant Gametophytic Selection. Plant Communications, 2020, 1, 100115.	3.6	28
83	The Long-Term Benefits of Self-Rejection. Science, 2010, 330, 459-460.	6.0	27
84	Transposable element evolution in the allotetraploid <i>Capsella bursaâ€pastoris</i> . American Journal of Botany, 2016, 103, 1197-1202.	0.8	27
85	Towards the new normal: Transcriptomic convergence and genomic legacy of the two subgenomes of an allopolyploid weed (Capsella bursa-pastoris). PLoS Genetics, 2019, 15, e1008131.	1.5	27
86	The effects of haploid selection on Y chromosome evolution in two closely related dioecious plants. Evolution Letters, 2018, 2, 368-377.	1.6	26
87	Coalescence and Linkage Disequilibrium in Facultatively Sexual Diploids. Genetics, 2018, 210, 683-701.	1.2	23
88	High DNA Sequence Diversity in Pericentromeric Genes of the Plant <i>Arabidopsis lyrata</i> . Genetics, 2008, 179, 985-995.	1.2	22
89	The genetic architecture and population genomic signatures of glyphosate resistance in <i>Amaranthus tuberculatus </i> i> Molecular Ecology, 2021, 30, 5373-5389.	2.0	22
90	Neutral Evolution of Synonymous Base Composition in the Brassicaceae. Journal of Molecular Evolution, 2007, 64, 136-141.	0.8	21

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91	Conditional neutrality at two adjacent NBS‣RR disease resistance loci in natural populations of ⟨i>Arabidopsis lyrata⟨/i>. Molecular Ecology, 2008, 17, 4953-4962.	2.0	19
92	Sex-Linked Inheritance in Macaque Monkeys: Implications for Effective Population Size and Dispersal to Sulawesi. Genetics, 2010, 185, 923-937.	1.2	19
93	Estimation of the SNP Mutation Rate in Two Vegetatively Propagating Species of Duckweed. G3: Genes, Genomes, Genetics, 2020, 10, 4191-4200.	0.8	19
94	Ancestral and neoâ€sex chromosomes contribute to population divergence in a dioecious plant. Evolution; International Journal of Organic Evolution, 2020, 74, 256-269.	1.1	17
95	Selfish genetic elements and plant genome size evolution. Trends in Plant Science, 2015, 20, 195-196.	4.3	16
96	Genomic Loss and Silencing on the Y Chromosomes of Rumex. Genome Biology and Evolution, 2017, 9, 3345-3355.	1.1	16
97	Hybridization and a loss of sex shape genomeâ€wide diversity and the origin of species in the evening primroses (<i>Oenothera</i> , Onagraceae). New Phytologist, 2019, 224, 1372-1380.	3.5	16
98	Signature of Diversifying Selection on Members of the Pentatricopeptide Repeat Protein Family in Arabidopsis lyrata. Genetics, 2009, 183, 663-672.	1.2	15
99	Sizing up Arabidopsis genome evolution. Heredity, 2011, 107, 509-510.	1.2	13
100	Genome-wide nucleotide diversity and associations with geography, ploidy level and glucosinolate profiles in Aethionema arabicum (Brassicaceae). Plant Systematics and Evolution, 2018, 304, 619-630.	0.3	13
101	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
102	Patterns and Causes of Signed Linkage Disequilibria in Flies and Plants. Molecular Biology and Evolution, 2021, 38, 4310-4321.	3.5	12
103	Interacting evolutionary pressures drive mutation dynamics and health outcomes in aging blood. Nature Communications, 2021, 12, 4921.	5.8	11
104	Repeated origins, widespread gene flow, and allelic interactions of target-site herbicide resistance mutations. ELife, 2022, 11 , .	2.8	11
105	Impact of Sampling Schemes on Demographic Inference: An Empirical Study in Two Species with Different Mating Systems and Demographic Histories. G3: Genes, Genomes, Genetics, 2012, 2, 803-814.	0.8	10
106	Homeologueâ€specific expression divergence in the recently formed tetraploid <i>Capsella bursaâ€pastoris</i> (Brassicaceae). New Phytologist, 2018, 220, 624-635.	3.5	10
107	Limited genomic consequences of mixed mating in the recently derived sister species pair, <i><scp>C</scp>ollinsia concolor</i> and <i><scp>C</scp>ollinsia parryi</i> Journal of Evolutionary Biology, 2014, 27, 1400-1412.	0.8	9
108	Chromosomal Distribution of Cytonuclear Genes in a Dioecious Plant with Sex Chromosomes. Genome Biology and Evolution, 2014, 6, 2439-2443.	1.1	9

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109	The genetic architecture of tristyly and its breakdown to selfâ€fertilization. Molecular Ecology, 2017, 26, 752-765.	2.0	9
110	Recombination landscape dimorphism and sex chromosome evolution in the dioecious plant <i>Rumex hastatulus (i). Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210226.</i>	1.8	9
111	Analysis of Site Frequency Spectra from Arabidopsis with Context-Dependent Corrections for Ancestral Misinference. Plant Physiology, 2009, 149, 616-624.	2.3	8
112	New genomic resources and comparative analyses reveal differences in floral gene expression in selfing and outcrossing Collinsia sister species. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	8
113	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
114	Recent matingâ€system evolution in <i>Eichhornia</i> is accompanied by <i>cis</i> â€regulatory divergence. New Phytologist, 2016, 211, 697-707.	3.5	7
115	Selection on Accessible Chromatin Regions in <i>Capsella grandiflora</i> . Molecular Biology and Evolution, 2021, 38, 5563-5575.	3.5	6
116	A less selfish view of genome size evolution in maize. PLoS Genetics, 2018, 14, e1007249.	1.5	4
117	Convergent Adaptation to Quantitative Host Resistance in a Major Plant Pathogen. MBio, 2021, 12, .	1.8	4
118	On the Trail of Linked Selection. PLoS Genetics, 2016, 12, e1006240.	1.5	4
119	The relative role of plasticity and demographic history in <i>Capsella bursa-pastoris</i> : a common garden experiment in Asia and Europe. AoB PLANTS, 2022, 14, .	1.2	4
120	Effects of the neoâ€X chromosome on genomic signatures of hybridization in <i>Rumex hastatulus</i> Molecular Ecology, 2022, 31, 3708-3721.	2.0	3
121	Using DNA Sequence Diversity to Test for Selection in Silene. International Journal of Plant Sciences, 2010, 171, 1072-1082.	0.6	2
122	Charlesworth <i>et al.</i> on Background Selection and Neutral Diversity. Genetics, 2016, 204, 829-832.	1.2	2
123	Recipient of the 2011 <i>Molecular Ecology</i> Prize: Deborah Charlesworth. Molecular Ecology, 2012, 23-25.	2.0	1
124	MUTATIONISM 2.0: VIEWING EVOLUTION THROUGH MUTATION'S LENS. Evolution; International Journal of Organic Evolution, 2014, 68, 1225-1227.	1.1	0
125	Chromosome Evolution: Infectious Sex Chromosomes in the African Monarch Butterfly. Current Biology, 2020, 30, R657-R659.	1.8	0
126	Deborah Charlesworth, winner of the society for the study of evolution's inaugural lifetime achievement award: Evolutionary biology for the genomics era. Evolution; International Journal of Organic Evolution, 2021, 75, 566-568.	1.1	0

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127	Opposing Evolutionary Pressures Drive Clonal Evolution and Health Outcomes in the Aging Blood System. Blood, 2020, 136, 37-37.	0.6	0