Jeffrey R Powell

List of Publications by Year
in descending order

100 papers	8,118 citations	81839 39 h-index	54882 84 g-index
105 all docs	105 docs citations	105 times ranked	7714 citing authors

#	Article	IF	Citations
1	Evolution of genes and genomes on the Drosophila phylogeny. Nature, 2007, 450, 203-218.	13.7	1,886
2	Improved reference genome of Aedes aegypti informs arbovirus vector control. Nature, 2018, 563, 501-507.	13.7	426
3	History of domestication and spread of Aedes aegypti - A Review. Memorias Do Instituto Oswaldo Cruz, 2013, 108, 11-17.	0.8	416
4	Evolution of codon usage bias in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7784-7790.	3.3	314
5	Codon Usage Bias and tRNA Abundance in Drosophila. Journal of Molecular Evolution, 1997, 45, 514-523.	0.8	292
6	Aedes aegypti vector competence studies: A review. Infection, Genetics and Evolution, 2019, 67, 191-209.	1.0	251
7	HUMAN IMPACTS HAVE SHAPED HISTORICAL AND RECENT EVOLUTION IN<i>AEDES AEGYPTI</i>, THE DENGUE AND YELLOW FEVER MOSQUITO. Evolution; International Journal of Organic Evolution, 2014, 68, 514-525.	1.1	225
8	Worldwide patterns of genetic differentiation imply multiple â€˜domesticationsâ€™ of<i>Aedes aegypti</i>, a major vector of human diseases. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2446-2454.	1.2	213
9	Codon usage in twelve species of Drosophila. BMC Evolutionary Biology, 2007, 7, 226.	3.2	197
10	Global genetic diversity of <i>Aedes aegypti</i>. Molecular Ecology, 2016, 25, 5377-5395.	2.0	195
11	Synonymous substitution rates in Drosophila: Mitochondrial versus nuclear genes. Journal of Molecular Evolution, 1997, 45, 378-391.	0.8	189
12	DNA DIVERGENCE AMONG HOMINOIDS. Evolution; International Journal of Organic Evolution, 1989, 43, 925-942.	1.1	178
13	Climate and Urbanization Drive Mosquito Preference for Humans. Current Biology, 2020, 30, 3570-3579.e6.	1.8	153
14	THE FOUNDERâ€FLUSH SPECIATION THEORY: AN EXPERIMENTAL APPROACH. Evolution; International Journal of Organic Evolution, 1978, 32, 465-474.	1.1	146
15	Recent History of<i>Aedes aegypti</i>: Vector Genomics and Epidemiology Records. BioScience, 2018, 68, 854-860.	2.2	142
16	A world-wide survey of genetic variation in the yellow fever mosquito,<i>Aedes aegypti</i>. Genetical Research, 1979, 34, 215-229.	0.3	136
17	Mosquito-Borne Human Viral Diseases: Why Aedes aegypti?. American Journal of Tropical Medicine and Hygiene, 2018, 98, 1563-1565.	0.6	110
18	Transgenic Aedes aegypti Mosquitoes Transfer Genes into a Natural Population. Scientific Reports, 2019, 9, 13047.	1.6	109

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19	Population structure, speciation, and introgression in the Anopheles gambiae complex. Parassitologia, 1999, 41, 101-13.	0.5	95
20	Drosophila Molecular Phylogenies and Their Uses. , 1995, , 87-138.		83
21	Tracking the return of Aedes aegypti to Brazil, the major vector of the dengue, chikungunya and Zika viruses. PLoS Neglected Tropical Diseases, 2017, 11, e0005653.	1.3	77
22	A test of the chromosomal theory of ecotypic speciation in <i>Anopheles gambiae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2940-2945.	3.3	74
23	Origin of the Dengue Fever Mosquito, Aedes aegypti, in California. PLoS Neglected Tropical Diseases, 2014, 8, e3029.	1.3	66
24	Improved reference genome of the arboviral vector Aedes albopictus. Genome Biology, 2020, 21, 215.	3.8	65
25	Multiple introductions of the dengue vector, Aedes aegypti, into California. PLoS Neglected Tropical Diseases, 2017, 11, e0005718.	1.3	65
26	Molecular biogeography: using the Corsica-Sardinia microplate disjunction to calibrate mitochondrial rDNA evolutionary rates in mountain newts (Euproctus). Journal of Evolutionary Biology, 1994, 7, 227-245.	0.8	64
27	MICROGEOGRAPHIC DIFFERENTIATION OF CHROMOSOMAL AND ENZYME POLYMORPHISMS IN <i>DROSOPHILA PERSIMILIS</i>. Genetics, 1977, 85, 681-695.	1.2	64
28	Reassociation Kinetics of Anopheles gambiae (Diptera: Culicidae) DNA. Journal of Medical Entomology, 1992, 29, 125-128.	0.9	63
29	Lack of Evidence for Natural Wolbachia Infections in Aedes aegypti (Diptera: Culicidae). Journal of Medical Entomology, 2018, 55, 1354-1356.	0.9	60
30	Population structure of a vector of human diseases: <i>Aedes aegypti</i> in its ancestral range, Africa. Ecology and Evolution, 2018, 8, 7835-7848.	0.8	57
31	A Multipurpose, High-Throughput Single-Nucleotide Polymorphism Chip for the Dengue and Yellow Fever Mosquito, <i>Aedes aegypti</i>. G3: Genes, Genomes, Genetics, 2015, 5, 711-718.	0.8	56
32	Macrogeographic genetic variation in a human commensal:<i>Aedes aegypti</i>, the yellow fever mosquito. Genetical Research, 1983, 41, 241-258.	0.3	53
33	Analysis of a Shift in Codon Usage in Drosophila. Journal of Molecular Evolution, 2003, 57, S214-S225.	0.8	52
34	Habitat choice in natural populations of Drosophila. Oecologia, 1978, 37, 69-75.	0.9	50
35	GENETIC DISTINCTNESS OF SYMPATRIC FORMS OF AEDES AEGYPTI IN EAST AFRICA. Evolution; International Journal of Organic Evolution, 1979, 33, 287-295.	1.1	50
36	FOUNDERâ€FLUSH SPECIATION: AN UPDATE OF EXPERIMENTAL RESULTS WITH <i>DROSOPHILA</i>. Evolution; International Journal of Organic Evolution, 1985, 39, 1388-1392.	1.1	49

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37	Genetic Diversity of Brazilian Aedes aegypti: Patterns following an Eradication Program. PLoS Neglected Tropical Diseases, 2014, 8, e3167.	1.3	47
38	Effective population sizes of a major vector of human diseases, <i>Aedes aegypti</i>. Evolutionary Applications, 2017, 10, 1031-1039.	1.5	47
39	Genetic structure of the East African domestic populations of Aedes aegypti. Nature, 1978, 272, 535-537.	13.7	45
40	<i>Aedes aegypti</i>Mosquitoes Imported into the Netherlands, 2010. Emerging Infectious Diseases, 2011, 17, 2335-2337.	2.0	45
41	Genetic evidence for the origin of <i>Aedes aegypti</i>, the yellow fever mosquito, in the southwestern Indian Ocean. Molecular Ecology, 2020, 29, 3593-3606.	2.0	45
42	POPULATION GENETICS OF DROSOPHILA AMYLASE. I. GENETIC CONTROL OF TISSUE-SPECIFIC EXPRESSION IN D. PSEUDOOBSCURA. Genetics, 1979, 92, 603-612.	1.2	44
43	EVOLUTIONARY IMPLICATIONS OF DNA DIVERGENCE IN THE DROSOPHILA OBSCURA GROUP. Evolution; International Journal of Organic Evolution, 1990, 44, 1656-1670.	1.1	40
44	FEMALE STERILITY IN HYBRIDS BETWEEN ANOPHELES GAMBIAE AND A. ARABIENSIS, AND THE CAUSES OF HALDANE'S RULE. Evolution; International Journal of Organic Evolution, 2005, 59, 1016-1026.	1.1	40
45	POPULATION GENETICS OF DROSOPHILA AMYLASE. IV. SELECTION IN LABORATORY POPULATIONS MAINTAINED ON DIFFERENT CARBOHYDRATES. Genetics, 1983, 103, 675-689.	1.2	40
46	A MOLECULAR PHYLOGENY OF THE <i>DROSOPHILA WILLISTONI</i> GROUP: CONFLICTS BETWEEN SPECIES CONCEPTS?. Evolution; International Journal of Organic Evolution, 1998, 52, 1093-1103.	1.1	39
47	Mosquitoes on the move. Science, 2016, 354, 971-972.	6.0	39
48	Aedes aegypti in the Black Sea: recent introduction or ancient remnant?. Parasites and Vectors, 2018, 11, 396.	1.0	39
49	Extreme rates and heterogeneity in insect DNA evolution. Journal of Molecular Evolution, 1990, 30, 273-280.	0.8	38
50	Origin of a High-Latitude Population of Aedes aegypti in Washington, DC. American Journal of Tropical Medicine and Hygiene, 2018, 98, 445-452.	0.6	36
51	MOLECULAR EVOLUTIONARY DIVERGENCE AMONG NORTH AMERICAN CAVE CRICKETS. II. DNAâ€DNA HYBRIDIZATION. Evolution; International Journal of Organic Evolution, 1987, 41, 1215-1238.	1.1	34
52	MITOCHONDRIAL DNA PHYLOGENIES FOR THE <i>DROSOPHILA OBSCURA</i> GROUP. Evolution; International Journal of Organic Evolution, 1997, 51, 433-440.	1.1	34
53	Genetic diversity of laboratory strains and implications for research: The case of Aedes aegypti. PLoS Neglected Tropical Diseases, 2019, 13, e0007930.	1.3	33
54	Inversion Monophyly in African Anopheline Malaria Vectors. Genetics, 1996, 143, 1313-1320.	1.2	33

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55	Genetic Heterogeneity among Caribbean Populations of Aedes aegypti. American Journal of Tropical Medicine and Hygiene, 1984, 33, 492-498.	0.6	33
56	A simplified procedure for studying mtDNA polymorphisms. Biochemical Genetics, 1983, 21, 1051-1055.	0.8	31
57	Multiple Origins of Cytologically Identical Chromosome Inversions in the Anopheles gambiae Complex. Genetics, 1998, 150, 807-814.	1.2	31
58	POPULATION GENETICS OF <i>DROSOPHILA</i> AMYLASE III. INTERSPECIFIC VARIATION. Evolution; International Journal of Organic Evolution, 1980, 34, 209-213.	1.1	28
59	The origin of captive GalÃ¡pagos tortoises based on DNA analysis: implications for the management of natural populations. Animal Conservation, 2003, 6, 329-337.	1.5	28
60	The TEACL method of DNA-DNA hybridization: Technical considerations. Journal of Molecular Evolution, 1990, 30, 267-272.	0.8	27
61	A machine-learning approach to map landscape connectivity in <i>Aedes aegypti</i> with genetic and environmental data. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
62	An Evolutionary Perspective on Vector-Borne Diseases. Frontiers in Genetics, 2019, 10, 1266.	1.1	26
63	POPULATION GENETICS OF DROSOPHILA AMYLASE. II. GEOGRAPHIC PATTERNS IN <i>D. PSEUDOOBSCURA</i>. Genetics, 1979, 92, 613-622.	1.2	26
64	A Molecular Phylogeny of the Drosophila willistoni Group: Conflicts Between Species Concepts?. Evolution; International Journal of Organic Evolution, 1998, 52, 1093.	1.1	24
65	Genetic Variation in Insect Vectors: Death of Typology?. Insects, 2018, 9, 139.	1.0	23
66	Drosophila pseudoobscura and Its American Relatives, Drosophila persimilis and Drosophila miranda. , 1975, , 537-587.		21
67	Developmental Stage and Level of Codon Usage Bias in Drosophila. Molecular Biology and Evolution, 2008, 25, 2269-2277.	3.5	20
68	From Anonymous to Public Enemy: How Does a Mosquito Become a Feared Arbovirus Vector?. Pathogens, 2020, 9, 265.	1.2	20
69	APPARENT SELECTION OF ENZYME ALLELES IN LABORATORY POPULATIONS OF DROSOPHILA. Genetics, 1973, 75, 557-570.	1.2	20
70	Genetic shifting: a novel approach for controlling vector-borne diseases. Trends in Parasitology, 2014, 30, 282-288.	1.5	19
71	DISPERSAL RATES OF SPECIES OF THE <i>DROSOPHILA OBSCURA</i> GROUP: IMPLICATIONS FOR POPULATION STRUCTURE. Evolution; International Journal of Organic Evolution, 1984, 38, 1397-1401.	1.1	18
72	Effects of Codon Usage on Gene Expression: Empirical Studies on Drosophila. Journal of Molecular Evolution, 2015, 80, 219-226.	0.8	16

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73	Genetic structure of the mosquito Aedes aegypti in local forest and domestic habitats in Gabon and Kenya. Parasites and Vectors, 2020, 13, 417.	1.0	16
74	Larval sites of the mosquito <i>Aedes aegypti formosus</i> in forest and domestic habitats in Africa and the potential association with oviposition evolution. Ecology and Evolution, 2021, 11, 16327-16343.	0.8	16
75	New contender for most lethal animal. Nature, 2016, 540, 525-525.	13.7	13
76	How Much Does Inbreeding Reduce Heterozygosity? Empirical Results from <i>Aedes aegypti</i>. American Journal of Tropical Medicine and Hygiene, 2017, 96, 157-158.	0.6	13
77	POPULATION GENETICS OF DROSOPHILA AMYLASE. V. GENETIC BACKGROUND AND SELECTION ON DIFFERENT CARBOHYDRATES. Genetics, 1984, 106, 625-629.	1.2	13
78	Mario Coluzzi (1938â€“2012). Malaria Journal, 2014, 13, 10.	0.8	12
79	Altered vector competence in an experimental mosquito-mouse transmission model of Zika infection. PLoS Neglected Tropical Diseases, 2018, 12, e0006350.	1.3	11
80	ADAPTIVE FLEXIBILITY OF â€œMARGINALâ€•VERSUS â€œCENTRALâ€•POPULATIONS OF <i>DROSOPHILA WILLISTONI</i>. Evolution; International Journal of Organic Evolution, 1977, 31, 692-694.	1.1	10
81	Adh Nucleotide Variation in Drosophila willistoni: High Replacement Polymorphism in an Electrophoretically Monomorphic Protein. Journal of Molecular Evolution, 1997, 45, 232-237.	0.8	10
82	Nonrecombining Genes in a Recombination Environment: The Drosophila "Dot" Chromosome. Molecular Biology and Evolution, 2011, 28, 825-833.	3.5	10
83	TEMPORAL STABILITY OF THIRD-CHROMOSOME INVERSION FREQUENCIES IN<i>DROSOPHILA PERSIMILIS</i>AND<i>D. PSEUDOOBSCURA</i>. Evolution; International Journal of Organic Evolution, 1992, 46, 1558-1563.	1.1	9
84	On the Possible Role of tRNA Base Modifications in the Evolution of Codon Usage: Queuosine and Drosophila. Journal of Molecular Evolution, 2010, 70, 339-345.	0.8	9
85	Anecdotal, Historical and Critical Commentaries on Genetics : "In the Air"â€"Theodosius Dobzhansky's <i>Genetics and the Origin of Species</i>. Genetics, 1987, 117, 363-366.	1.2	9
86	GENETIC VARIATION FOR DISPERSAL BY DROSOPHILA PSEUDOOBSCURA AND DROSOPHILA PERSIMILIS. Genetics, 1986, 112, 229-235.	1.2	8
87	Population Genetic Analysis of Aedes aegypti Mosquitoes From Sudan Revealed Recent Independent Colonization Events by the Two Subspecies. Frontiers in Genetics, 2022, 13, 825652.	1.1	8
88	Genome-wide Association Study Reveals New Loci Associated With Pyrethroid Resistance in Aedes aegypti. Frontiers in Genetics, 2022, 13, 867231.	1.1	8
89	Giant tortoises. Current Biology, 2006, 16, R144-R145.	1.8	7
90	Editorial Expression of Concern: Transgenic Aedes aegypti Mosquitoes Transfer Genes into a Natural Population. Scientific Reports, 2020, 10, 5524.	1.6	7

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91	Modifying mosquitoes to suppress disease transmission: Is the long wait over?. Genetics, 2022, 221, .	1.2	6
92	Heterosis at an enzyme locus of drosophila: evidence from experimental populations. Heredity, 1974, 32, 105-108.	1.2	5
93	Evidence for serial founder events during the colonization of North America by the yellow fever mosquito, <i>Aedes aegypti</i>. Ecology and Evolution, 2022, 12, e8896.	0.8	5
94	Interaction of genetic loci: the effect of linkage disequilibria on hardy-weinberg expectations. Heredity, 1974, 32, 151-158.	1.2	4
95	EXFOLIATED CELLS AS THE MOST ACCESSIBLE DNA SOURCE FOR CAPTIVE WHALES and DOLPHINS. Marine Mammal Science, 1994, 10, 125-128.	0.9	4
96	Quantifying the efficacy of genetic shifting in control of mosquitoâ€borne diseases. Evolutionary Applications, 2019, 12, 1552-1568.	1.5	4
97	Sunshine versus gold: The effect of population age on genetic structure of an invasive mosquito. Ecology and Evolution, 2020, 10, 9588-9599.	0.8	4
98	Molecular approaches to systematics and phylogeny reconstruction. Bollettino Di Zoologia, 1991, 58, 295-298.	0.3	3
99	Origins of high latitude introductions of Aedes aegypti to Nebraska and Utah during 2019. Infection, Genetics and Evolution, 2022, 103, 105333.	1.0	3
100	Increasing Effectiveness of Genetically Modifying Mosquito Populations: Risk Assessment of Releasing Blood-Fed Females. American Journal of Tropical Medicine and Hygiene, 2021, 104, 1895-1906.	0.6	1