Robert K Wayne

List of Publications by Year
in descending order

125 papers	11,614 citations	31949 53 h-index	31818 101 g-index
147 all docs	147 docs citations	147 times ranked	11012 citing authors

#	Article	IF	Citations
1	Transgressive segregation, adaptation and speciation. Heredity, 1999, 83, 363-372.	1.2	955
2	Multiple and Ancient Origins of the Domestic Dog. Science, 1997, 276, 1687-1689.	6.0	878
3	A Role for Ecotones in Generating Rainforest Biodiversity. Science, 1997, 276, 1855-1857.	6.0	603
4	Genome Sequencing Highlights the Dynamic Early History of Dogs. PLoS Genetics, 2014, 10, e1004016.	1.5	481
5	Effects of Urbanization and Habitat Fragmentation on Bobcats and Coyotes in Southern California. Conservation Biology, 2003, 17, 566-576.	2.4	355
6	Molecular and Evolutionary History of Melanism in North American Gray Wolves. Science, 2009, 323, 1339-1343.	6.0	346
7	INTROGRESSION OF COYOTE MITOCHONDRIAL DNA INTO SYMPATRIC NORTH AMERICAN GRAY WOLF POPULATIONS. Evolution; International Journal of Organic Evolution, 1991, 45, 104-119.	1.1	272
8	A genome-wide perspective on the evolutionary history of enigmatic wolf-like canids. Genome Research, 2011, 21, 1294-1305.	2.4	266
9	Bottlenecks and selective sweeps during domestication have increased deleterious genetic variation in dogs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 152-157.	3.3	265
10	A molecular genetic analysis of social structure, dispersal, and interpack relationships of the African wild dog (Lycaon pictus â€Š). Behavioral Ecology and Sociobiology, 1997, 40, 187-198.	0.6	218
11	Genomic Flatlining in the Endangered Island Fox. Current Biology, 2016, 26, 1183-1189.	1.8	201
12	Modeling Effects of Environmental Change on Wolf Population Dynamics, Trait Evolution, and Life History. Science, 2011, 334, 1275-1278.	6.0	185
13	Megafaunal Extinctions and the Disappearance of a Specialized Wolf Ecomorph. Current Biology, 2007, 17, 1146-1150.	1.8	182
14	Lessons learned from the dog genome. Trends in Genetics, 2007, 23, 557-567.	2.9	182
15	The genealogy and genetic viability of reintroduced Yellowstone grey wolves. Molecular Ecology, 2008, 17, 252-274.	2.0	177
16	Genomic signatures of extensive inbreeding in Isle Royale wolves, a population on the threshold of extinction. Science Advances, 2019, 5, eaau0757.	4.7	173
17	Hypoxia Adaptations in the Grey Wolf (Canis lupus chanco) from Qinghai-Tibet Plateau. PLoS Genetics, 2014, 10, e1004466.	1.5	169
18	Differentiation of tundra/taiga and boreal coniferous forest wolves: genetics, coat colour and association with migratory caribou. Molecular Ecology, 2007, 16, 4149-4170.	2.0	163

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19	Worldwide patterns of genomic variation and admixture in gray wolves. Genome Research, 2016, 26, 163-173.	2.4	160
20	Genome-wide Evidence Reveals that African and Eurasian Golden Jackals Are Distinct Species. Current Biology, 2015, 25, 2158-2165.	1.8	156
21	Whole-genome sequence analysis shows that two endemic species of North American wolf are admixtures of the coyote and gray wolf. Science Advances, 2016, 2, e1501714.	4.7	150
22	Hybridization between Wolves and Dogs. Conservation Biology, 1999, 13, 195-198.	2.4	144
23	Purging of Strongly Deleterious Mutations Explains Long-Term Persistence and Absence of Inbreeding Depression in Island Foxes. Current Biology, 2018, 28, 3487-3494.e4.	1.8	140
24	The Use of Microsatellite Variation to Infer Population Structure and Demographic History in a Natural Model System. Genetics, 1999, 151, 797-801.	1.2	135
25	Linkage Disequilibrium and Demographic History of Wild and Domestic Canids. Genetics, 2009, 181, 1493-1505.	1.2	129
26	Strongly deleterious mutations are a primary determinant of extinction risk due to inbreeding depression. Evolution Letters, 2021, 5, 33-47.	1.6	127
27	Demographic history, selection and functional diversity of the canine genome. Nature Reviews Genetics, 2017, 18, 705-720.	7.7	125
28	Hybridization and endangered species protection in the molecular era. Molecular Ecology, 2016, 25, 2680-2689.	2.0	124
29	A study of the genetic relationships within and among wolf packs using DNA fingerprinting and mitochondrial DNA. Behavioral Ecology and Sociobiology, 1992, 30, 83.	0.6	123
30	Molecular Genetics of Pre-1940 Red Wolves. Conservation Biology, 1996, 10, 1413-1424.	2.4	121
31	Relationships and Genetic Purity of the Endangered Mexican Wolf Based on Analysis of Microsatellite Loci. Conservation Biology, 1996, 10, 376-389.	2.4	120
32	The behavioural ecology of the island fox (Urocyon littoralis). Journal of Zoology, 2001, 255, 1-14.	0.8	118
33	Genetic evaluation of the three captive mexican wolf lineages. Zoo Biology, 1997, 16, 47-69.	0.5	103
34	Microsatellite analysis of genetic diversity in fragmented South African buffalo populations. Animal Conservation, 1998, 1, 85-94.	1.5	101
35	Genetic subdivision and candidate genes under selection in North American grey wolves. Molecular Ecology, 2016, 25, 380-402.	2.0	100
36	The adaptive value of morphological, behavioural and lifeâ€history traits in reproductive female wolves. Journal of Animal Ecology, 2013, 82, 222-234.	1.3	96

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37	Full of Sound and Fury: History of Ancient DNA. Annual Review of Ecology, Evolution, and Systematics, 1999, 30, 457-477.	6.7	94
38	Origin, genetic diversity, and genome structure of the domestic dog. BioEssays, 1999, 21, 247-257.	1.2	93
39	POSTGLACIAL POPULATION EXPANSION DRIVES THE EVOLUTION OF LONG-DISTANCE MIGRATION IN A SONGBIRD. Evolution; International Journal of Organic Evolution, 2006, 60, 2403-2409.	1.1	92
40	Anacapa Toolkit: An environmental DNA toolkit for processing multilocus metabarcode datasets. Methods in Ecology and Evolution, 2019, 10, 1469-1475.	2.2	88
41	Ecological factors drive differentiation in wolves from British Columbia. Journal of Biogeography, 2009, 36, 1516-1531.	1.4	85
42	Conservation in Conflict: the Tale of Two Endangered Species. Conservation Biology, 2003, 17, 1251-1260.	2.4	84
43	Mapping evolutionary process: a multiâ€taxa approach to conservation prioritization. Evolutionary Applications, 2011, 4, 397-413.	1.5	84
44	Evolutionary genomics of dog domestication. Mammalian Genome, 2012, 23, 3-18.	1.0	82
45	Admixture mapping identifies introgressed genomic regions in North American canids. Molecular Ecology, 2016, 25, 2443-2453.	2.0	79
46	Demographically-Based Evaluation of Genomic Regions under Selection in Domestic Dogs. PLoS Genetics, 2016, 12, e1005851.	1.5	77
47	Tripartite genetic subdivisions in the ornate shrew (Sorex ornatus). Molecular Ecology, 2001, 10, 127-147.	2.0	74
48	The concerted impact of domestication and transposon insertions on methylation patterns between dogs and grey wolves. Molecular Ecology, 2016, 25, 1838-1855.	2.0	73
49	Deciphering the Origin of Dogs: From Fossils to Genomes. Annual Review of Animal Biosciences, 2017, 5, 281-307.	3.6	67
50	Dog10K: an international sequencing effort to advance studies of canine domestication, phenotypes and health. National Science Review, 2019, 6, 810-824.	4.6	65
51	Comparison against 186 canid whole-genome sequences reveals survival strategies of an ancient clonally transmissible canine tumor. Genome Research, 2015, 25, 1646-1655.	2.4	63
52	Survival and cause-specific mortality of gray foxes (Urocyon cinereoargenteus) in southern California. Journal of Zoology, 2005, 266, 249-254.	0.8	62
53	The ecology of three sympatric jackal species in the Rift Valley of Kenya. African Journal of Ecology, 1989, 27, 313-323.	0.4	58
54	Disease and freeways drive genetic change in urban bobcat populations. Evolutionary Applications, 2015, 8, 75-92.	1.5	58

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55	INTRASPECIFIC GENETIC DIFFERENTIATION IN CALIFORNIA SEA LIONS (ZALOPHUS CALIFORNIANUS) FROM SOUTHERN CALIFORNIA AND THE GULF OF CALIFORNIA. Marine Mammal Science, 1995, 11, 46-58.	0.9	57
56	Whole mitochondrial genomes illuminate ancient intercontinental dispersals of grey wolves (Canis lupus). Journal of Biogeography, 2016, 43, 1728-1738.	1.4	57
57	Darwin's Fox: A Distinct Endangered Species in a Vanishing Habitat. Conservation Biology, 1996, 10, 366-375.	2.4	55
58	Puma genomes from North and South America provide insights into the genomic consequences of inbreeding. Nature Communications, 2019, 10, 4769.	5.8	55
59	ECOMORPHOLOGY OF MIGRATORY AND SEDENTARY POPULATIONS OF THE YELLOW-RUMPED WARBLER (DENDROICA CORONATA). Condor, 2008, 110, 335-344.	0.7	54
60	Genetic evidence for the persistence of the critically endangered Sierra Nevada red fox in California. Conservation Genetics, 2007, 8, 1083-1095.	0.8	53
61	GENETIC SUBDIVISIONS AMONG SMALL CANIDS: MITOCHONDRIAL DNA DIFFERENTIATION OF SWIFT, KIT, AND ARCTIC FOXES. Evolution; International Journal of Organic Evolution, 1993, 47, 1313-1328.	1.1	52
62	Modeling environmentally associated morphological and genetic variation in a rainforest bird, and its application to conservation prioritization. Evolutionary Applications, 2010, 3, 1-16.	1.5	52
63	Seasonal gene expression in a migratory songbird. Molecular Ecology, 2016, 25, 5680-5691.	2.0	50
64	The critically endangered vaquita is not doomed to extinction by inbreeding depression. Science, 2022, 376, 635-639.	6.0	49
65	Inbreeding is reduced by female-biased dispersal and mating behavior in Ethiopian wolves. Behavioral Ecology, 2007, 18, 579-589.	1.0	48
66	Aquatic Adaptation and Depleted Diversity: A Deep Dive into the Genomes of the Sea Otter and Giant Otter. Molecular Biology and Evolution, 2019, 36, 2631-2655.	3.5	48
67	Kinship, parental manipulation and evolutionary origins of eusociality. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142886.	1.2	47
68	Targeted capture and resequencing of 1040 genes reveal environmentally driven functional variation in grey wolves. Molecular Ecology, 2016, 25, 357-379.	2.0	47
69	De Novo Mutation Rate Estimation in Wolves of Known Pedigree. Molecular Biology and Evolution, 2019, 36, 2536-2547.	3.5	46
70	Natural Selection and Origin of a Melanistic Allele in North American Gray Wolves. Molecular Biology and Evolution, 2018, 35, 1190-1209.	3.5	45
71	A SEROLOGIC SURVEY OF THE ISLAND FOX (UROCYON LITTORALIS) ON THE CHANNEL ISLANDS, CALIFORNIA. Journal of Wildlife Diseases, 1992, 28, 223-229.	0.3	44
72	Genomeâ€wide expression reveals multiple systemic effects associated with detection of anticoagulant poisons in bobcats (Lynx rufus). Molecular Ecology, 2018, 27, 1170-1187.	2.0	43

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73	Dire wolves were the last of an ancient New World canid lineage. Nature, 2021, 591, 87-91.	13.7	43
74	Kin encounter rate and inbreeding avoidance in canids. Molecular Ecology, 2011, 20, 5348-5358.	2.0	40
75	Urbanization and anticoagulant poisons promote immune dysfunction in bobcats. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172533.	1.2	40
76	Evolutionary History, Selective Sweeps, and Deleterious Variation in the Dog. Annual Review of Ecology, Evolution, and Systematics, 2016, 47, 73-96.	3.8	37
77	Foundress polyphenism and the origins of eusociality in a facultatively eusocial sweat bee, Megalopta genalis (Halictidae). Behavioral Ecology and Sociobiology, 2013, 67, 331-340.	0.6	34
78	Isolation of polymorphic tetranucleotide microsatellite markers for the brown anole (Anolis sagrei). Molecular Ecology Notes, 2004, 4, 176-178.	1.7	33
79	Establishing the foundation for an applied molecular taxonomy of otters in Southeast Asia. Conservation Genetics, 2008, 9, 1589-1604.	0.8	33
80	Patterns of divergence in the olive sunbird Cyanomitra olivacea (Aves: Nectariniidae) across the African rainforest-savanna ecotone. Biological Journal of the Linnean Society, 2011, 103, 821-835.	0.7	31
81	Adaptive Units for Conservation: Population Distinction and Historic Extinctions in the Island Scrub-Jay. Conservation Biology, 2005, 19, 523-533.	2.4	30
82	A cryptic contact zone between divergent mitochondrial DNA lineages in southwestern North America supports past introgressive hybridization in the yellow-rumped warbler complex (Aves:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37	0.7	29
83	Connectivity of mule deer (Odocoileus hemionus) populations in a highly fragmented urban landscape. Landscape Ecology, 2019, 34, 1097-1115.	1.9	27
84	EPAS1 variants in high altitude Tibetan wolves were selectively introgressed into highland dogs. PeerJ, 2017, 5, e3522.	0.9	27
85	GENETIC DIVERGENCE AND DIFFERENTIATION WITHIN THE WESTERN SCRUB-JAY (APHELOCOMA) Tj ETQq1 1 0.784314 rgBT /Ove	0.7	26
86	Fine-scale genetic structure in Ethiopian wolves imposed by sociality, migration, and population bottlenecks. Conservation Genetics, 2010, 11, 89-101.	0.8	25
87	Pervasive Effects of Aging on Gene Expression in Wild Wolves. Molecular Biology and Evolution, 2016, 33, 1967-1978.	3.5	24
88	Similar genomic proportions of copy number variation within gray wolves and modern dog breeds inferred from whole genome sequencing. BMC Genomics, 2017, 18, 977.	1.2	24
89	Comparative genomics provides new insights into the remarkable adaptations of the African wild dog (Lycaon pictus). Scientific Reports, 2019, 9, 8329.	1.6	23
90	Landscape analyses using eDNA metabarcoding and Earth observation predict community biodiversity in California. Ecological Applications, 2021, 31, e02379.	1.8	23

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91	Hibernation slows epigenetic ageing in yellow-bellied marmots. Nature Ecology and Evolution, 2022, 6, 418-426.	3.4	23
92	Phylogeography and molecular phylogeny of Macaronesian island Tarphius (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.4	22
93	From zero to infinity: Minimum to maximum diversity of the planet by spatioâ€parametric Raoâ€™s quadratic entropy. Global Ecology and Biogeography, 2021, 30, 1153-1162.	2.7	21
94	Sharing and reporting benefits from biodiversity research. Molecular Ecology, 2021, 30, 1103-1107.	2.0	19
95	Conservation genomics illuminates the adaptive uniqueness of North American gray wolves. Conservation Genetics, 2019, 20, 29-43.	0.8	18
96	Playing by the rules? Phenotypic adaptation to temperate environments in an American marsupial. PeerJ, 2018, 6, e4512.	0.9	18
97	Detecting the vanishing populations of the highly endangered Darwin's fox, Pseudalopex fulvipes. Animal Conservation, 2004, 7, 147-153.	1.5	16
98	Molecular assessment of the phylogeny and biogeography of a recently diversified endemic group of South American canids (Mammalia: Carnivora: Canidae). Genetics and Molecular Biology, 2016, 39, 442-451.	0.6	16
99	A Genome-Wide Perspective on the Persistence of Red Wolf Ancestry in Southeastern Canids. Journal of Heredity, 2020, 111, 277-286.	1.0	16
100	Transcriptomic analysis of skin pigmentation variation in the Virginia opossum (Didelphis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	2.0	15
101	The utility ofÂenvironmental DNA from sediment and water samples for recovery of observed plant and animal species from four Mojave Desert springs. Environmental DNA, 2021, 3, 214-230.	3.1	14
102	Natural re-colonization and admixture of wolves (Canis lupus) in the US Pacific Northwest: challenges for the protection and management of rare and endangered taxa. Heredity, 2019, 122, 133-149.	1.2	13
103	Mexican Wolves Are a Valid Subspecies and an Appropriate Conservation Target. Journal of Heredity, 2015, 106, 415-416.	1.0	12
104	Phylogeographic and diversification patterns of the white-nosed coati (Nasua narica): Evidence for south-to-north colonization of North America. Molecular Phylogenetics and Evolution, 2019, 131, 149-163.	1.2	12
105	Genomic analyses reveal rangeâ€wide devastation of sea otter populations. Molecular Ecology, 2023, 32, 281-298.	2.0	12
106	Genetic evidence for recent range fragmentation and severely restricted dispersal in the critically endangered Sierra Madre Sparrow, Xenospiza baileyi. Conservation Genetics, 2012, 13, 283-291.	0.8	11
107	Inferring the ancestry of African wild dogs that returned to the Serengeti-Mara. Conservation Genetics, 2012, 13, 525-533.	0.8	10
108	Microsatellite analysis of genetic diversity in fragmented South African buffalo populations. Animal Conservation, 1998, 1, 85-94.	1.5	10

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109	Determining the drivers of population structure in a highly urbanized landscape to inform conservation planning. Conservation Biology, 2018, 32, 148-158.	2.4	8
110	First reproductive signs of inbreeding depression in Southern California male mountain lions (Puma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	8
111	Defense of an expanded historical range for the Mexican wolf: A comment on Heffelfinger et al.. Journal of Wildlife Management, 2017, 81, 1331-1333.	0.7	7
112	Response to Hohenlohe et al .. Science Advances, 2017, 3, e1701233.	4.7	6
113	Complex patterns of sex-biased demography in canines. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20181976.	1.2	6
114	Gene expression shifts in yellow-bellied marmots prior to natal dispersal. Behavioral Ecology, 2019, 30, 267-277.	1.0	6
115	Genomic evidence for the Old divergence of Southern European wolf populations. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201206.	1.2	6
116	Polyphyletic ancestry of historic gray wolves inhabiting U.S. Pacific states. Conservation Genetics, 2015, 16, 759-764.	0.8	5
117	A Reference Genome Assembly of the Bobcat, Lynx rufus. Journal of Heredity, 2022, 113, 615-623.	1.0	5
118	More is better. Molecular Ecology, 2009, 18, 4994-4996.	2.0	4
119	Ten polymorphic microsatellite loci for the endangered Buena Vista Lake shrew (Sorex ornatus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	3
120	Responseâ€"How the Gray Wolf Got Its Color. Science, 2009, 325, 34-34.	6.0	3
121	Illuminating the mysteries of wolf history. Molecular Ecology, 2020, 29, 1589-1591.	2.0	3
122	K Locus Effects in Gray Wolves: Experimental Assessment of TLR3 Signaling and the Gene Expression Response to Canine Distemper Virus. Journal of Heredity, 2021, 112, 458-468.	1.0	3
123	Optimization of RNA isolation and leukocyte viability in canid RNA expression studies. Conservation Genetics Resources, 2012, 4, 27-29.	0.4	2
124	Differential gene expression patterns in spermatozoa from teratospermic and normospermic domestic cats. Animal Reproduction Science, 2021, 226, 106698.	0.5	2
125	Origin of the Red Wolf: Response to Nowak and Federoff and Gardener. Conservation Biology, 1998, 12, 726-729.	2.4	1