

Robert K Wayne

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

8,631
citations

48
h-index

92
g-index

147
ext. papers

10,361
ext. citations

7
avg, IF

5.94
L-index

#	Paper	IF	Citations
123	First reproductive signs of inbreeding depression in Southern California male mountain lions (<i>Puma concolor</i>). <i>Theriogenology</i> , 2022 , 177, 157-164	2.8	2
122	Hibernation slows epigenetic ageing in yellow-bellied marmots.. <i>Nature Ecology and Evolution</i> , 2022 , ,	12.3	2
121	The critically endangered vaquita is not doomed to extinction by inbreeding depression.. <i>Science</i> , 2022 , 376, 635-639	33.3	2
120	Differential gene expression patterns in spermatozoa from teratospermic and normospermic domestic cats. <i>Animal Reproduction Science</i> , 2021 , 226, 106698	2.1	1
119	From zero to infinity: Minimum to maximum diversity of the planet by spatio-parametric Rao's quadratic entropy. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1153-1162	6.1	4
118	The utility of environmental DNA from sediment and water samples for recovery of observed plant and animal species from four Mojave Desert springs. <i>Environmental DNA</i> , 2021 , 3, 214-230	7.6	5
117	Dire wolves were the last of an ancient New World canid lineage. <i>Nature</i> , 2021 , 591, 87-91	50.4	18
116	K Locus Effects in Gray Wolves: Experimental Assessment of TLR3 Signaling and the Gene Expression Response to Canine Distemper Virus. <i>Journal of Heredity</i> , 2021 , 112, 458-468	2.4	2
115	Landscape analyses using eDNA metabarcoding and Earth observation predict community biodiversity in California. <i>Ecological Applications</i> , 2021 , 31, e02379	4.9	3
114	Strongly deleterious mutations are a primary determinant of extinction risk due to inbreeding depression. <i>Evolution Letters</i> , 2021 , 5, 33-47	5.3	43
113	A Genome-Wide Perspective on the Persistence of Red Wolf Ancestry in Southeastern Canids. <i>Journal of Heredity</i> , 2020 , 111, 277-286	2.4	6
112	Genomic evidence for the Old divergence of Southern European wolf populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20201206	4.4	3
111	Aquatic Adaptation and Depleted Diversity: A Deep Dive into the Genomes of the Sea Otter and Giant Otter. <i>Molecular Biology and Evolution</i> , 2019 , 36, 2631-2655	8.3	26
110	Comparative genomics provides new insights into the remarkable adaptations of the African wild dog (<i>Lycaon pictus</i>). <i>Scientific Reports</i> , 2019 , 9, 8329	4.9	15
109	Genomic signatures of extensive inbreeding in Isle Royale wolves, a population on the threshold of extinction. <i>Science Advances</i> , 2019 , 5, eaau0757	14.3	82
108	Anacapa Toolkit: An environmental DNA toolkit for processing multilocus metabarcode datasets. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 1469-1475	7.7	39
107	Complex patterns of sex-biased demography in canines. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20181976	4.4	5

106	Connectivity of mule deer (<i>Odocoileus hemionus</i>) populations in a highly fragmented urban landscape. <i>Landscape Ecology</i> , 2019 , 34, 1097-1115	4.3	12
105	Gene expression shifts in yellow-bellied marmots prior to natal dispersal. <i>Behavioral Ecology</i> , 2019 , 30, 267-277	2.3	3
104	Dog10K: an international sequencing effort to advance studies of canine domestication, phenotypes and health. <i>National Science Review</i> , 2019 , 6, 810-824	10.8	27
103	Natural re-colonization and admixture of wolves (<i>Canis lupus</i>) in the US Pacific Northwest: challenges for the protection and management of rare and endangered taxa. <i>Heredity</i> , 2019 , 122, 133-149	2.6	7
102	De novo mutation rate estimation in wolves of known pedigree. <i>Molecular Biology and Evolution</i> , 2019 ,	8.3	17
101	Puma genomes from North and South America provide insights into the genomic consequences of inbreeding. <i>Nature Communications</i> , 2019 , 10, 4769	17.4	24
100	Phylogeographic and diversification patterns of the white-nosed coati (<i>Nasua narica</i>): Evidence for south-to-north colonization of North America. <i>Molecular Phylogenetics and Evolution</i> , 2019 , 131, 149-163	4.1	8
99	Conservation genomics illuminates the adaptive uniqueness of North American gray wolves. <i>Conservation Genetics</i> , 2019 , 20, 29-43	2.6	7
98	Natural Selection and Origin of a Melanistic Allele in North American Gray Wolves. <i>Molecular Biology and Evolution</i> , 2018 , 35, 1190-1209	8.3	28
97	Urbanization and anticoagulant poisons promote immune dysfunction in bobcats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	29
96	Genome-wide expression reveals multiple systemic effects associated with detection of anticoagulant poisons in bobcats (<i>Lynx rufus</i>). <i>Molecular Ecology</i> , 2018 , 27, 1170-1187	5.7	22
95	Determining the drivers of population structure in a highly urbanized landscape to inform conservation planning. <i>Conservation Biology</i> , 2018 , 32, 148-158	6	6
94	Transcriptomic analysis of skin pigmentation variation in the Virginia opossum (<i>Didelphis virginiana</i>). <i>Molecular Ecology</i> , 2018 , 27, 2680-2697	5.7	10
93	Playing by the rules? Phenotypic adaptation to temperate environments in an American marsupial. <i>PeerJ</i> , 2018 , 6, e4512	3.1	8
92	Purging of Strongly Deleterious Mutations Explains Long-Term Persistence and Absence of Inbreeding Depression in Island Foxes. <i>Current Biology</i> , 2018 , 28, 3487-3494.e4	6.3	63
91	Deciphering the Origin of Dogs: From Fossils to Genomes. <i>Annual Review of Animal Biosciences</i> , 2017 , 5, 281-307	13.7	39
90	Demographic history, selection and functional diversity of the canine genome. <i>Nature Reviews Genetics</i> , 2017 , 18, 705-720	30.1	85
89	Similar genomic proportions of copy number variation within gray wolves and modern dog breeds inferred from whole genome sequencing. <i>BMC Genomics</i> , 2017 , 18, 977	4.5	15

88	Response to Hohenlohe. <i>Science Advances</i> , 2017 , 3, e1701233	14.3	6
87	Defense of an expanded historical range for the Mexican wolf: A comment on Heffelfinger et al.. <i>Journal of Wildlife Management</i> , 2017 , 81, 1331-1333	1.9	6
86	variants in high altitude Tibetan wolves were selectively introgressed into highland dogs. <i>PeerJ</i> , 2017 , 5, e3522	3.1	17
85	Seasonal gene expression in a migratory songbird. <i>Molecular Ecology</i> , 2016 , 25, 5680-5691	5.7	31
84	Whole-genome sequence analysis shows that two endemic species of North American wolf are admixtures of the coyote and gray wolf. <i>Science Advances</i> , 2016 , 2, e1501714	14.3	98
83	Pervasive Effects of Aging on Gene Expression in Wild Wolves. <i>Molecular Biology and Evolution</i> , 2016 , 33, 1967-78	8.3	17
82	Worldwide patterns of genomic variation and admixture in gray wolves. <i>Genome Research</i> , 2016 , 26, 1636-73	9.7	118
81	Bottlenecks and selective sweeps during domestication have increased deleterious genetic variation in dogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 152-7	11.5	179
80	Demographically-Based Evaluation of Genomic Regions under Selection in Domestic Dogs. <i>PLoS Genetics</i> , 2016 , 12, e1005851	6	56
79	Molecular assessment of the phylogeny and biogeography of a recently diversified endemic group of South American canids (Mammalia: Carnivora: Canidae). <i>Genetics and Molecular Biology</i> , 2016 , 39, 442-51	2.51	10
78	The concerted impact of domestication and transposon insertions on methylation patterns between dogs and grey wolves. <i>Molecular Ecology</i> , 2016 , 25, 1838-55	5.7	52
77	Whole mitochondrial genomes illuminate ancient intercontinental dispersals of grey wolves (<i>Canis lupus</i>). <i>Journal of Biogeography</i> , 2016 , 43, 1728-1738	4.1	40
76	Admixture mapping identifies introgressed genomic regions in North American canids. <i>Molecular Ecology</i> , 2016 , 25, 2443-53	5.7	58
75	Hybridization and endangered species protection in the molecular era. <i>Molecular Ecology</i> , 2016 , 25, 2680-9	5.7	86
74	Targeted capture and resequencing of 1040 genes reveal environmentally driven functional variation in grey wolves. <i>Molecular Ecology</i> , 2016 , 25, 357-79	5.7	38
73	Genetic subdivision and candidate genes under selection in North American grey wolves. <i>Molecular Ecology</i> , 2016 , 25, 380-402	5.7	75
72	Genomic Flatlining in the Endangered Island Fox. <i>Current Biology</i> , 2016 , 26, 1183-9	6.3	117
71	Evolutionary History, Selective Sweeps, and Deleterious Variation in the Dog. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016 , 47, 73-96	13.5	24

70	Genome-wide Evidence Reveals that African and Eurasian Golden Jackals Are Distinct Species. <i>Current Biology</i> , 2015 , 25, 2158-65	6.3	118
69	Mexican Wolves Are a Valid Subspecies and an Appropriate Conservation Target. <i>Journal of Heredity</i> , 2015 , 106, 415-6	2.4	9
68	Polyphyletic ancestry of historic gray wolves inhabiting U.S. Pacific states. <i>Conservation Genetics</i> , 2015 , 16, 759-764	2.6	4
67	Comparison against 186 canid whole-genome sequences reveals survival strategies of an ancient clonally transmissible canine tumor. <i>Genome Research</i> , 2015 , 25, 1646-55	9.7	48
66	Disease and freeways drive genetic change in urban bobcat populations. <i>Evolutionary Applications</i> , 2015 , 8, 75-92	4.8	44
65	Kinship, parental manipulation and evolutionary origins of eusociality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20142886	4.4	36
64	Hypoxia adaptations in the grey wolf (<i>Canis lupus chanco</i>) from Qinghai-Tibet Plateau. <i>PLoS Genetics</i> , 2014 , 10, e1004466	6	107
63	Genome sequencing highlights the dynamic early history of dogs. <i>PLoS Genetics</i> , 2014 , 10, e1004016	6	372
62	Foundress polyphenism and the origins of eusociality in a facultatively eusocial sweat bee, <i>Megalopta genalis</i> (Halictidae). <i>Behavioral Ecology and Sociobiology</i> , 2013 , 67, 331-340	2.5	25
61	The adaptive value of morphological, behavioural and life-history traits in reproductive female wolves. <i>Journal of Animal Ecology</i> , 2013 , 82, 222-34	4.7	73
60	Phylogeography and molecular phylogeny of Macaronesian island Tarphius (Coleoptera: Zopheridae): why are there so few species in the Azores?. <i>Journal of Biogeography</i> , 2012 , 39, 1583-1595	4.1	15
59	Evolutionary genomics of dog domestication. <i>Mammalian Genome</i> , 2012 , 23, 3-18	3.2	60
58	Genetic evidence for recent range fragmentation and severely restricted dispersal in the critically endangered Sierra Madre Sparrow, <i>Xenospiza baileyi</i> . <i>Conservation Genetics</i> , 2012 , 13, 283-291	2.6	8
57	Inferring the ancestry of African wild dogs that returned to the Serengeti-Mara. <i>Conservation Genetics</i> , 2012 , 13, 525-533	2.6	7
56	Optimization of RNA isolation and leukocyte viability in canid RNA expression studies. <i>Conservation Genetics Resources</i> , 2012 , 4, 27-29	0.8	2
55	A genome-wide perspective on the evolutionary history of enigmatic wolf-like canids. <i>Genome Research</i> , 2011 , 21, 1294-305	9.7	222
54	Modeling effects of environmental change on wolf population dynamics, trait evolution, and life history. <i>Science</i> , 2011 , 334, 1275-8	33.3	148
53	Kin encounter rate and inbreeding avoidance in canids. <i>Molecular Ecology</i> , 2011 , 20, 5348-58	5.7	34

52	A cryptic contact zone between divergent mitochondrial DNA lineages in southwestern North America supports past introgressive hybridization in the yellow-rumped warbler complex (Aves: <i>Dendroica coronata</i>). <i>Biological Journal of the Linnean Society</i> , 2011 , 103, 696-706	1.9	26
51	Patterns of divergence in the olive sunbird <i>Cyanomitra olivacea</i> (Aves: Nectariniidae) across the African rainforest-savanna ecotone. <i>Biological Journal of the Linnean Society</i> , 2011 , 103, 821-835	1.9	28
50	Mapping evolutionary process: a multi-taxa approach to conservation prioritization. <i>Evolutionary Applications</i> , 2011 , 4, 397-413	4.8	68
49	Modeling environmentally associated morphological and genetic variation in a rainforest bird, and its application to conservation prioritization. <i>Evolutionary Applications</i> , 2010 , 3, 1-16	4.8	42
48	Fine-scale genetic structure in Ethiopian wolves imposed by sociality, migration, and population bottlenecks. <i>Conservation Genetics</i> , 2010 , 11, 89-101	2.6	22
47	ResponseHow the Gray Wolf Got Its Color. <i>Science</i> , 2009 , 325, 34-34	33.3	2
46	Linkage disequilibrium and demographic history of wild and domestic canids. <i>Genetics</i> , 2009 , 181, 1493-505	5.0	106
45	Ecological factors drive differentiation in wolves from British Columbia. <i>Journal of Biogeography</i> , 2009 , 36, 1516-1531	4.1	70
44	More is better. <i>Molecular Ecology</i> , 2009 , 18, 4994-4996	5.7	4
43	Molecular and evolutionary history of melanism in North American gray wolves. <i>Science</i> , 2009 , 323, 1339-1343	3.3	292
42	Origin of the Red Wolf: Response to Nowak and Federoff and Gardener. <i>Conservation Biology</i> , 2008 , 12, 726-729	6	
41	The genealogy and genetic viability of reintroduced Yellowstone grey wolves. <i>Molecular Ecology</i> , 2008 , 17, 252-74	5.7	144
40	Ecomorphology of Migratory and Sedentary Populations of the Yellow-Rumped Warbler (<i>Dendroica Coronata</i>)Ecomorfologí de Poblaciones Migratorias y Sedentarias de <i>Dendroica coronata</i> Borja Millé et al.Ecomorphology of Yellow-Rumped Warblers. <i>Condor</i> , 2008 , 110, 335-344	2.1	43
39	Genetic Divergence and Differentiation within the Western Scrub-Jay (<i>Aphelocoma Californica</i>)Divergencia Genéica y Diferenciació dentro de <i>Aphelocoma californica</i> Delaney, Zafar, and WayneGenetic Divergence in Western Scrub-Jays. <i>Auk</i> , 2008 , 125, 839-849	2.1	19
38	Establishing the foundation for an applied molecular taxonomy of otters in Southeast Asia. <i>Conservation Genetics</i> , 2008 , 9, 1589-1604	2.6	29
37	Differentiation of tundra/taiga and boreal coniferous forest wolves: genetics, coat colour and association with migratory caribou. <i>Molecular Ecology</i> , 2007 , 16, 4149-70	5.7	138
36	Megafaunal extinctions and the disappearance of a specialized wolf ecomorph. <i>Current Biology</i> , 2007 , 17, 1146-50	6.3	156
35	Lessons learned from the dog genome. <i>Trends in Genetics</i> , 2007 , 23, 557-67	8.5	133

34	Genetic evidence for the persistence of the critically endangered Sierra Nevada red fox in California. <i>Conservation Genetics</i> , 2007 , 8, 1083-1095	2.6	45
33	Inbreeding is reduced by female-biased dispersal and mating behavior in Ethiopian wolves. <i>Behavioral Ecology</i> , 2007 , 18, 579-589	2.3	44
32	POSTGLACIAL POPULATION EXPANSION DRIVES THE EVOLUTION OF LONG-DISTANCE MIGRATION IN A SONGBIRD. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2403-2409	3.8	78
31	Ten polymorphic microsatellite loci for the endangered Buena Vista Lake shrew (<i>Sorex ornatus relictus</i>). <i>Molecular Ecology Notes</i> , 2006 , 6, 349-352		2
30	Adaptive Units for Conservation: Population Distinction and Historic Extinctions in the Island Scrub-Jay. <i>Conservation Biology</i> , 2005 , 19, 523-533	6	27
29	Survival and cause-specific mortality of gray foxes (<i>Urocyon cinereoargenteus</i>) in southern California. <i>Journal of Zoology</i> , 2005 , 266, 249-254	2	40
28	Isolation of polymorphic tetranucleotide microsatellite markers for the brown anole (<i>Anolis sagrei</i>). <i>Molecular Ecology Notes</i> , 2004 , 4, 176-178		32
27	Detecting the vanishing populations of the highly endangered Darwin's fox, <i>Pseudalopex fulvipes</i> . <i>Animal Conservation</i> , 2004 , 7, 147-153	3.2	12
26	Effects of Urbanization and Habitat Fragmentation on Bobcats and Coyotes in Southern California. <i>Conservation Biology</i> , 2003 , 17, 566-576	6	288
25	Conservation in Conflict: the Tale of Two Endangered Species. <i>Conservation Biology</i> , 2003 , 17, 1251-1260		65
24	Tripartite genetic subdivisions in the ornate shrew (<i>Sorex ornatus</i>). <i>Molecular Ecology</i> , 2001 , 10, 127-47	5.7	63
23	The behavioural ecology of the island fox (<i>Urocyon littoralis</i>). <i>Journal of Zoology</i> , 2001 , 255, 1-14	2	98
22	Hybridization between Wolves and Dogs. <i>Conservation Biology</i> , 1999 , 13, 195-198	6	114
21	Transgressive segregation, adaptation and speciation. <i>Heredity</i> , 1999 , 83 (Pt 4), 363-72	3.6	780
20	Origin, genetic diversity, and genome structure of the domestic dog. <i>BioEssays</i> , 1999 , 21, 247-57	4.1	67
19	Full of Sound and Fury: History of Ancient DNA. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1999 , 30, 457-477		79
18	The use of microsatellite variation to infer population structure and demographic history in a natural model system. <i>Genetics</i> , 1999 , 151, 797-801	4	107
17	Microsatellite analysis of genetic diversity in fragmented South African buffalo populations. <i>Animal Conservation</i> , 1998 , 1, 85-94	3.2	88

16	Microsatellite analysis of genetic diversity in fragmented South African buffalo populations 1998 , 1, 85		10
15	A Role for Ecotones in Generating Rainforest Biodiversity. <i>Science</i> , 1997 , 276, 1855-1857	33.3	509
14	Multiple and ancient origins of the domestic dog. <i>Science</i> , 1997 , 276, 1687-9	33.3	694
13	A molecular genetic analysis of social structure, dispersal, and interpack relationships of the African wild dog (<i>Lycaon pictus</i>). <i>Behavioral Ecology and Sociobiology</i> , 1997 , 40, 187-198	2.5	184
12	Genetic evaluation of the three captive mexican wolf lineages. <i>Zoo Biology</i> , 1997 , 16, 47-69	1.6	81
11	Darwin's Fox: A Distinct Endangered Species in a Vanishing Habitat. <i>Conservation Biology</i> , 1996 , 10, 366-375		38
10	Relationships and Genetic Purity of the Endangered Mexican Wolf Based on Analysis of Microsatellite Loci. <i>Conservation Biology</i> , 1996 , 10, 376-389	6	99
9	Molecular Genetics of Pre-1940 Red Wolves. <i>Conservation Biology</i> , 1996 , 10, 1413-1424	6	98
8	INTRASPECIFIC GENETIC DIFFERENTIATION IN CALIFORNIA SEA LIONS (<i>ZALOPHUS CALIFORNIANUS</i>) FROM SOUTHERN CALIFORNIA AND THE GULF OF CALIFORNIA. <i>Marine Mammal Science</i> , 1995 , 11, 46-58	1.9	48
7	GENETIC SUBDIVISIONS AMONG SMALL CANIDS: MITOCHONDRIAL DNA DIFFERENTIATION OF SWIFT, KIT, AND ARCTIC FOXES. <i>Evolution; International Journal of Organic Evolution</i> , 1993 , 47, 1313-1328	3.8	33
6	A serologic survey of the island fox (<i>Urocyon littoralis</i>) on the Channel Islands, California. <i>Journal of Wildlife Diseases</i> , 1992 , 28, 223-9	1.3	35
5	A study of the genetic relationships within and among wolf packs using DNA fingerprinting and mitochondrial DNA. <i>Behavioral Ecology and Sociobiology</i> , 1992 , 30, 83	2.5	90
4	INTROGRESSION OF COYOTE MITOCHONDRIAL DNA INTO SYMPATRIC NORTH AMERICAN GRAY WOLF POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 104-119	3.8	250
3	The ecology of three sympatric jackal species in the Rift Valley of Kenya. <i>African Journal of Ecology</i> , 1989 , 27, 313-323	0.8	41
2	Hibernation slows epigenetic aging in yellow-bellied marmots		4
1	Universal DNA methylation age across mammalian tissues		31