

# Peng Shi

## List of Publications by Year in descending order

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59  
papers

4,886  
citations

172457

29  
h-index

133252

59  
g-index

64  
all docs

64  
docs citations

64  
times ranked

6644  
citing authors

#	ARTICLE	IF	CITATIONS
1	The yak genome and adaptation to life at high altitude. <i>Nature Genetics</i> , 2012, 44, 946-949.	21.4	708
2	Phylogenomic reconstruction of lactic acid bacteria: an update. <i>BMC Evolutionary Biology</i> , 2011, 11, 1.	3.2	312
3	Convergent Evolution of Rumen Microbiomes in High-Altitude Mammals. <i>Current Biology</i> , 2016, 26, 1873-1879.	3.9	281
4	Adaptive Diversification of Bitter Taste Receptor Genes in Mammalian Evolution. <i>Molecular Biology and Evolution</i> , 2003, 20, 805-814.	8.9	257
5	YTHDF1 links hypoxia adaptation and non-small cell lung cancer progression. <i>Nature Communications</i> , 2019, 10, 4892.	12.8	256
6	Contrasting Modes of Evolution Between Vertebrate Sweet/Umami Receptor Genes and Bitter Receptor Genes. <i>Molecular Biology and Evolution</i> , 2006, 23, 292-300.	8.9	236
7	Spatial heterogeneity and co-occurrence patterns of human mucosal-associated intestinal microbiota. <i>ISME Journal</i> , 2014, 8, 881-893.	9.8	206
8	More genes underwent positive selection in chimpanzee evolution than in human evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7489-7494.	7.1	191
9	Comparative genomic analysis identifies an evolutionary shift of vomeronasal receptor gene repertoires in the vertebrate transition from water to land. <i>Genome Research</i> , 2007, 17, 166-174.	5.5	186
10	The hearing gene Prestin unites echolocating bats and whales. <i>Current Biology</i> , 2010, 20, R55-R56.	3.9	178
11	Large Gene Family Expansions and Adaptive Evolution for Odorant and Gustatory Receptors in the Pea Aphid, <i>Acyrtosiphon pisum</i> . <i>Molecular Biology and Evolution</i> , 2009, 26, 2073-2086.	8.9	176
12	Dramatic variation of the vomeronasal pheromone receptor gene repertoire among five orders of placental and marsupial mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5767-5772.	7.1	175
13	Gut microbiota dysbiosis and bacterial community assembly associated with cholesterol gallstones in large-scale study. <i>BMC Genomics</i> , 2013, 14, 669.	2.8	168
14	Large-Scale Survey of Gut Microbiota Associated With MHE Via 16S rRNA-Based Pyrosequencing. <i>American Journal of Gastroenterology</i> , 2013, 108, 1601-1611.	0.4	149
15	Composition and evolution of the V2r vomeronasal receptor gene repertoire in mice and rats. <i>Genomics</i> , 2005, 86, 306-315.	2.9	136
16	Interspecies Implantation and Mitochondria Fate of Panda-Rabbit Cloned Embryos <sup>1</sup> . <i>Biology of Reproduction</i> , 2002, 67, 637-642.	2.7	125
17	Comparative genomic investigation of high-elevation adaptation in ectothermic snakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8406-8411.	7.1	119
18	Down-Regulation of <i>EPAS1</i> Transcription and Genetic Adaptation of Tibetans to High-Altitude Hypoxia. <i>Molecular Biology and Evolution</i> , 2017, 34, msw280.	8.9	87

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19	Largest Vertebrate Vomeronasal Type 1 Receptor Gene Repertoire in the Semiaquatic Platypus. <i>Molecular Biology and Evolution</i> , 2007, 24, 2153-2157.	8.9	81
20	Parallel Sites Implicate Functional Convergence of the Hearing Gene Prestin among Echolocating Mammals. <i>Molecular Biology and Evolution</i> , 2014, 31, 2415-2424.	8.9	77
21	CTCF prevents genomic instability by promoting homologous recombination-directed DNA double-strand break repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10912-10917.	7.1	64
22	Lipidome determinants of maximal lifespan in mammals. <i>Scientific Reports</i> , 2017, 7, 5.	3.3	60
23	Adaptive Diversification of Vomeronasal Receptor 1 Genes in Rodents. <i>Journal of Molecular Evolution</i> , 2005, 60, 566-576.	1.8	56
24	Convergent genomic signatures of high-altitude adaptation among domestic mammals. <i>National Science Review</i> , 2020, 7, 952-963.	9.5	52
25	Did brain-specific genes evolve faster in humans than in chimpanzees?. <i>Trends in Genetics</i> , 2006, 22, 608-613.	6.7	50
26	PAQR4 promotes chemoresistance in non-small cell lung cancer through inhibiting Nrf2 protein degradation. <i>Theranostics</i> , 2020, 10, 3767-3778.	10.0	50
27	The transcriptomic landscape of yaks reveals molecular pathways for high altitude adaptation. <i>Genome Biology and Evolution</i> , 2019, 11, 72-85.	2.5	41
28	Parallel Evolution of KCNQ4 in Echolocating Bats. <i>PLoS ONE</i> , 2011, 6, e26618.	2.5	39
29	Melanocortin-1 receptor gene variants in four Chinese ethnic populations. <i>Cell Research</i> , 2001, 11, 81-84.	12.0	30
30	More Functional V1R Genes Occur in Nest-Living and Nocturnal Terricolous Mammals. <i>Genome Biology and Evolution</i> , 2010, 2, 277-283.	2.5	28
31	Echolocation in soft-furred tree mice. <i>Science</i> , 2021, 372, .	12.6	28
32	Independent origin of the growth hormone gene family in New World monkeys and Old World monkeys/hominoids. <i>Journal of Molecular Endocrinology</i> , 2005, 35, 399-409.	2.5	24
33	Repeated functional convergent effects of Na <sup>V</sup> 1.7 on acid insensitivity in hibernating mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132950.	2.6	24
34	Hearing Aid for Vertebrates via Multiple Episodic Adaptive Events on Prestin Genes. <i>Molecular Biology and Evolution</i> , 2012, 29, 2187-2198.	8.9	22
35	Genomic and functional evidence reveals molecular insights into the origin of echolocation in whales. <i>Science Advances</i> , 2018, 4, eaat8821.	10.3	22
36	Identifying Lineage-Specific Targets of Natural Selection by a Bayesian Analysis of Genomic Polymorphisms and Divergence from Multiple Species. <i>Molecular Biology and Evolution</i> , 2019, 36, 1302-1315.	8.9	21

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37	Molecular evolution of growth hormone gene family in old world monkeys and hominoids. <i>Gene</i> , 2005, 350, 183-192.	2.2	19
38	Independent Birth of a Novel TRIMCyp in <i>Tupaia belangeri</i> with a Divergent Function from Its Paralog TRIM5. <i>Molecular Biology and Evolution</i> , 2014, 31, 2985-2997.	8.9	17
39	Evolutionary dynamics of the ABCA chromosome 17q24 cluster genes in vertebrates. <i>Genomics</i> , 2007, 89, 385-391.	2.9	15
40	Phenotypic and genomic adaptations to the extremely high elevation in plateau zokor ( <i>Myospalax</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	3.9	13
41	A single mutation underlying phenotypic convergence for hypoxia adaptation on the Qinghai-Tibetan Plateau. <i>Cell Research</i> , 2021, 31, 1032-1035.	12.0	11
42	Molecular and evolutionary analyses of formyl peptide receptors suggest the absence of VNO-specific FPRs in primates. <i>Journal of Genetics and Genomics</i> , 2010, 37, 771-778.	3.9	10
43	Functional Effects of a Retained Ancestral Polymorphism in <i>Prestin</i> . <i>Molecular Biology and Evolution</i> , 2017, 34, 88-92.	8.9	10
44	Gene losses may contribute to subterranean adaptations in naked mole-rat and blind mole-rat. <i>BMC Biology</i> , 2022, 20, 44.	3.8	10
45	Comparative genomic analysis reveals more functional nasal chemoreceptors in nocturnal mammals than in diurnal mammals. <i>Science Bulletin</i> , 2010, 55, 3901-3910.	1.7	9
46	Genomic analysis of Asian honeybee populations in China reveals evolutionary relationships and adaptation to abiotic stress. <i>Ecology and Evolution</i> , 2020, 10, 13427-13438.	1.9	8
47	Evolutionary implications of Avian Infectious Bronchitis Virus (AIBV) analysis. <i>Cell Research</i> , 2006, 16, 323-327.	12.0	7
48	Phylogenetic relationships of the zokor genus <i>Myospalax</i> (Mammalia, Rodentia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 Hengduan Mountains. <i>Zoological Research</i> , 2022, 43, 331-342.	2.1	7
49	RETSAT Mutation Selected for Hypoxia Adaptation Inhibits Tumor Growth. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 744992.	3.7	4
50	Molecular convergence and transgenic evidence suggest a single origin of laryngeal echolocation in bats. <i>iScience</i> , 2022, 25, 104114.	4.1	4
51	Microsatellite DNA analysis proves nucleus of interspecies reconstructed blastocyst coming from that of donor giant panda. <i>Science Bulletin</i> , 2000, 45, 1883-1885.	1.7	3
52	Comparative Analysis of the Liver and Spleen Transcriptomes between Holstein and Yunnan Humped Cattle. <i>Animals</i> , 2019, 9, 527.	2.3	3
53	Cochlear hair cells of echolocating bats are immune to intense noise. <i>Journal of Genetics and Genomics</i> , 2021, 48, 984-993.	3.9	3
54	A New World Monkey Resembles Human in Bitter Taste Receptor Evolution and Function via a Single Parallel Amino Acid Substitution. <i>Molecular Biology and Evolution</i> , 2021, 38, 5472-5479.	8.9	3

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55	Microbiomeâ€™host-phylogeny relationships in animal gastrointestinal tract microbiomes. FEMS Microbiology Ecology, 2022, 98, .	2.7	3
56	Integrative Functional Transcriptomic Analyses Implicate Shared Molecular Circuits in Sensorineural Hearing Loss. Frontiers in Cellular Neuroscience, 2022, 16, 857344.	3.7	3
57	The Toggle Switch Model for Gene Expression Change during the Prenatal-to-Postnatal Transition in Mammals. Molecular Biology and Evolution, 2022, 39, .	8.9	2
58	A New Homotetramer Hemoglobin in the Pulmonary Surfactant of Plateau Zokors (Myospalax Baileyi). Frontiers in Genetics, 2022, 13, 824049.	2.3	2
59	Bitter and sweet/umami taste receptors with differently evolutionary pathways. Journal of Genetics and Genomics, 2005, 32, 346-53.	0.3	0