

Peng Shi

List of Publications by Citations

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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.

60
papers

3,386
citations

27
h-index

58
g-index

64
ext. papers

4,323
ext. citations

8.6
avg, IF

5.01
L-index

#	Paper	IF	Citations
60	The yak genome and adaptation to life at high altitude. <i>Nature Genetics</i> , 2012 , 44, 946-9	36.3	472
59	Adaptive diversification of bitter taste receptor genes in Mammalian evolution. <i>Molecular Biology and Evolution</i> , 2003 , 20, 805-14	8.3	219
58	Contrasting modes of evolution between vertebrate sweet/umami receptor genes and bitter receptor genes. <i>Molecular Biology and Evolution</i> , 2006 , 23, 292-300	8.3	200
57	Phylogenomic reconstruction of lactic acid bacteria: an update. <i>BMC Evolutionary Biology</i> , 2011 , 11, 1	3	166
56	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, 7489-94	11.5	161
55	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, 166-74	9.7	155
54	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, 5767-72	11.5	154
53	Spatial heterogeneity and co-occurrence patterns of human mucosal-associated intestinal microbiota. <i>ISME Journal</i> , 2014 , 8, 881-93	11.9	144
52	YTHDF1 links hypoxia adaptation and non-small cell lung cancer progression. <i>Nature Communications</i> , 2019 , 10, 4892	17.4	140
51	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, 2073-86	8.3	140
50	Convergent Evolution of Rumen Microbiomes in High-Altitude Mammals. <i>Current Biology</i> , 2016 , 26, 1873-69		136
49	The hearing gene Prestin unites echolocating bats and whales. <i>Current Biology</i> , 2010 , 20, R55-6	6.3	133
48	Composition and evolution of the V2r vomeronasal receptor gene repertoire in mice and rats. <i>Genomics</i> , 2005 , 86, 306-15	4.3	128
47	Interspecies implantation and mitochondria fate of panda-rabbit cloned embryos. <i>Biology of Reproduction</i> , 2002 , 67, 637-42	3.9	110
46	Large-scale survey of gut microbiota associated with MHE Via 16S rRNA-based pyrosequencing. <i>American Journal of Gastroenterology</i> , 2013 , 108, 1601-11	0.7	104
45	Gut microbiota dysbiosis and bacterial community assembly associated with cholesterol gallstones in large-scale study. <i>BMC Genomics</i> , 2013 , 14, 669	4.5	99
44	Largest vertebrate vomeronasal type 1 receptor gene repertoire in the semiaquatic platypus. <i>Molecular Biology and Evolution</i> , 2007 , 24, 2153-7	8.3	72

43	Down-Regulation of EPAS1 Transcription and Genetic Adaptation of Tibetans to High-Altitude Hypoxia. <i>Molecular Biology and Evolution</i> , 2017 , 34, 818-830	8.3	58
42	Adaptive diversification of vomeronasal receptor 1 genes in rodents. <i>Journal of Molecular Evolution</i> , 2005 , 60, 566-76	3.1	52
41	Parallel sites implicate functional convergence of the hearing gene prestin among echolocating mammals. <i>Molecular Biology and Evolution</i> , 2014 , 31, 2415-24	8.3	49
40	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	11.5	46
39	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	11.5	43
38	Did brain-specific genes evolve faster in humans than in chimpanzees?. <i>Trends in Genetics</i> , 2006 , 22, 608-83	8.3	42
37	Lipidome determinants of maximal lifespan in mammals. <i>Scientific Reports</i> , 2017 , 7, 5	4.9	37
36	Parallel evolution of KCNQ4 in echolocating bats. <i>PLoS ONE</i> , 2011 , 6, e26618	3.7	31
35	Melanocortin-1 receptor gene variants in four Chinese ethnic populations. <i>Cell Research</i> , 2001 , 11, 81-4	24.7	29
34	PAQR4 promotes chemoresistance in non-small cell lung cancer through inhibiting Nrf2 protein degradation. <i>Theranostics</i> , 2020 , 10, 3767-3778	12.1	28
33	More functional V1R genes occur in nest-living and nocturnal terricolous mammals. <i>Genome Biology and Evolution</i> , 2010 , 2, 277-83	3.9	24
32	The Transcriptomic Landscape of Yaks Reveals Molecular Pathways for High Altitude Adaptation. <i>Genome Biology and Evolution</i> , 2019 , 11, 72-85	3.9	24
31	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	4.5	22
30	Repeated functional convergent effects of NaV1.7 on acid insensitivity in hibernating mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20132950	4.4	20
29	Molecular evolution of growth hormone gene family in old world monkeys and hominoids. <i>Gene</i> , 2005 , 350, 183-92	3.8	18
28	Hearing aid for vertebrates via multiple episodic adaptive events on prestin genes. <i>Molecular Biology and Evolution</i> , 2012 , 29, 2187-98	8.3	17
27	Convergent genomic signatures of high-altitude adaptation among domestic mammals. <i>National Science Review</i> , 2020 , 7, 952-963	10.8	17
26	Genomic and functional evidence reveals molecular insights into the origin of echolocation in whales. <i>Science Advances</i> , 2018 , 4, eaat8821	14.3	14

25	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, 2985-97	8.3	12
24	Evolutionary dynamics of the ABCA chromosome 17q24 cluster genes in vertebrates. <i>Genomics</i> , 2007 , 89, 385-91	4.3	11
23	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, 771-8	4	9
22	Functional Effects of a Retained Ancestral Polymorphism in Prestin. <i>Molecular Biology and Evolution</i> , 2017 , 34, 88-92	8.3	8
21	Echolocation in soft-furred tree mice. <i>Science</i> , 2021 , 372,	33.3	8
20	Evolutionary implications of Avian Infectious Bronchitis Virus (AIBV) analysis. <i>Cell Research</i> , 2006 , 16, 323-7	24.7	7
19	Comparative genomic analysis reveals more functional nasal chemoreceptors in nocturnal mammals than in diurnal mammals. <i>Science Bulletin</i> , 2010 , 55, 3901-3910		6
18	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	8.3	3
17	A single mutation underlying phenotypic convergence for hypoxia adaptation on the Qinghai-Tibetan Plateau. <i>Cell Research</i> , 2021 , 31, 1032-1035	24.7	3
16	Bitterness Perception in Humans: An Evolutionary Perspective 2017 , 37-50		2
15	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	2.8	2
14	Microsatellite DNA analysis proves nucleus of interspecies reconstructed blastocyst coming from that of donor giant panda. <i>Science Bulletin</i> , 2000 , 45, 1883-1885		2
13	Comparative Analysis of the Liver and Spleen Transcriptomes between Holstein and Yunnan Humped Cattle. <i>Animals</i> , 2019 , 9,	3.1	1
12	Mutation Selected for Hypoxia Adaptation Inhibits Tumor Growth. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 744992	5.7	1
11	Convergent genomic signatures of high altitude adaptation among domestic mammals		1
10	Cochlear hair cells of echolocating bats are immune to intense noise. <i>Journal of Genetics and Genomics</i> , 2021 , 48, 984-993	4	1
9	Phenotypic and genomic adaptations to the extremely high elevation in plateau zokor (<i>Myospalax baileyi</i>). <i>Molecular Ecology</i> , 2021 , 30, 5765-5779	5.7	1
8	Taste, Chemical Biology of1		1

7	Phylogenetic relationships of the zokor genus (Mammalia, Rodentia, Spalacidae) inferred from whole-genome analyses, with description of a new species endemic to Hengduan Mountains.. <i>Zoological Research</i> , 2022 , 43, 331-342	3.4	1
6	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	8.3	0
5	Gene losses may contribute to subterranean adaptations in naked mole-rat and blind mole-rat.. <i>BMC Biology</i> , 2022 , 20, 44	7.3	0
4	A New Homotetramer Hemoglobin in the Pulmonary Surfactant of Plateau Zokors (). <i>Frontiers in Genetics</i> , 2022 , 13, 824049	4.5	0
3	Integrative Functional Transcriptomic Analyses Implicate Shared Molecular Circuits in Sensorineural Hearing Loss.. <i>Frontiers in Cellular Neuroscience</i> , 2022 , 16, 857344	6.1	0
2	Molecular convergence and transgenic evidence suggest a single origin of laryngeal echolocation in bats.. <i>IScience</i> , 2022 , 25, 104114	6.1	0
1	Bitter and sweet/umami taste receptors with differently evolutionary pathways. <i>Journal of Genetics and Genomics</i> , 2005 , 32, 346-53		