Shuyi Zhang

List of Publications by Year
in descending order

110 papers	6,141 citations	109311 35 h-index	76898 74 g-index
112 all docs	112 docs citations	112 times ranked	7437 citing authors

#	Article	IF	Citations
1	Bats Are Natural Reservoirs of SARS-Like Coronaviruses. Science, 2005, 310, 676-679.	12.6	2,130
2	Review of Bats and SARS. Emerging Infectious Diseases, 2006, 12, 1834-1840.	4.3	375
3	Deciphering the bat virome catalog to better understand the ecological diversity of bat viruses and the bat origin of emerging infectious diseases. ISME Journal, 2016, 10, 609-620.	9.8	249
4	Virome Analysis for Identification of Novel Mammalian Viruses in Bat Species from Chinese Provinces. Journal of Virology, 2012, 86, 10999-11012.	3.4	244
5	The evolution of color vision in nocturnal mammals. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8980-8985.	7.1	202
6	Convergent sequence evolution between echolocating bats and dolphins. Current Biology, 2010, 20, R53-R54.	3.9	202
7	Evolutionary Relationships between Bat Coronaviruses and Their Hosts. Emerging Infectious Diseases, 2007, 13, 1526-1532.	4.3	123
8	The hearing gene Prestin reunites echolocating bats. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13959-13964.	7.1	116
9	Accelerated FoxP2 Evolution in Echolocating Bats. PLoS ONE, 2007, 2, e900.	2.5	103
10	Full-length genome sequences of two SARS-like coronaviruses in horseshoe bats and genetic variation analysis. Journal of General Virology, 2006, 87, 3355-3359.	2.9	96
11	Novel SARS-like Betacoronaviruses in Bats, China, 2011. Emerging Infectious Diseases, 2013, 19, 989-91.	4.3	93
12	MERSâ€“Related Betacoronavirus inVespertilio superansBats, China. Emerging Infectious Diseases, 2014, 20, 1260-2.	4.3	90
13	Evolution of the Sweet Taste Receptor Gene Tas1r2 in Bats. Molecular Biology and Evolution, 2010, 27, 2642-2650.	8.9	82
14	ORF8-Related Genetic Evidence for Chinese Horseshoe Bats as the Source of Human Severe Acute Respiratory Syndrome Coronavirus. Journal of Infectious Diseases, 2016, 213, 579-583.	4.0	77
15	Discovery of Itraconazole with Broad-Spectrum In Vitro Antienterovirus Activity That Targets Nonstructural Protein 3A. Antimicrobial Agents and Chemotherapy, 2015, 59, 2654-2665.	3.2	63
16	Adaptive Evolution of 5'HoxD Genes in the Origin and Diversification of the Cetacean Flipper. Molecular Biology and Evolution, 2008, 26, 613-622.	8.9	60
17	PHYLOGENETICS OF SMALL HORSESHOE BATS FROM EAST ASIA BASED ON MITOCHONDRIAL DNA SEQUENCE VARIATION. Journal of Mammalogy, 2006, 87, 1234-1240.	1.3	56
18	Cetaceans on a Molecular Fast Track to Ultrasonic Hearing. Current Biology, 2010, 20, 1834-1839.	3.9	56

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19	Identification of Diverse Bat Alphacoronaviruses and Betacoronaviruses in China Provides New Insights Into the Evolution and Origin of Coronavirus-Related Diseases. Frontiers in Microbiology, 2019, 10, 1900.	3.5	53
20	The Voltage-Gated Potassium Channel Subfamily KQT Member 4 (KCNQ4) Displays Parallel Evolution in Echolocating Bats. Molecular Biology and Evolution, 2012, 29, 1441-1450.	8.9	52
21	Discovery of Retroviral Homologs in Bats: Implications for the Origin of Mammalian Gammaretroviruses. Journal of Virology, 2012, 86, 4288-4293.	3.4	52
22	Rhodopsin Molecular Evolution in Mammals Inhabiting Low Light Environments. PLoS ONE, 2009, 4, e8326.	2.5	51
23	Genomic and Genetic Evidence for the Loss of Umami Taste in Bats. Genome Biology and Evolution, 2012, 4, 73-79.	2.5	51
24	Historical maleâ€mediated introgression in horseshoe bats revealed by multilocus DNA sequence data. Molecular Ecology, 2010, 19, 1352-1366.	3.9	48
25	Identification of diverse groups of endogenous gammaretroviruses in mega- and microbats. Journal of General Virology, 2012, 93, 2037-2045.	2.9	48
26	The two suborders of chiropterans have the canonical heavy-chain immunoglobulin (Ig) gene repertoire of eutherian mammals. Developmental and Comparative Immunology, 2011, 35, 273-284.	2.3	45
27	Enterovirus 71 infection in children with hand, foot, and mouth disease in Shanghai, China: epidemiology, clinical feature and diagnosis. Virology Journal, 2015, 12, 83.	3.4	43
28	Prenatal development supports a single origin of laryngeal echolocation in bats. Nature Ecology and Evolution, 2017, 1, 21.	7.8	43
29	Differential stepwise evolution of SARS coronavirus functional proteins in different host species. BMC Evolutionary Biology, 2009, 9, 52.	3.2	42
30	Widespread Losses of Vomeronasal Signal Transduction in Bats. Molecular Biology and Evolution, 2011, 28, 7-12.	8.9	41
31	Doppler-shift compensation behavior in horseshoe bats revisited: auditory feedback controls both a decrease and an increase in call frequency. Journal of Experimental Biology, 2002, 205, 1607-1616.	1.7	41
32	Dietary analysis confirms that Rickett's big-footed bat (Myotis ricketti) is a piscivore. Journal of Zoology, 2003, 261, 245-248.	1.7	40
33	Diet, Echolocation Calls, and Phylogenetic Affinities of the Great Evening Bat (Ia io; Vespertilionidae): Another Carnivorous Bat. Journal of Mammalogy, 2007, 88, 728-735.	1.3	39
34	Antioxidant Defenses in the Brains of Bats during Hibernation. PLoS ONE, 2016, 11, e0152135.	2.5	39
35	The Genomes of Two Bat Species with Long Constant Frequency Echolocation Calls. Molecular Biology and Evolution, 2017, 34, 20-34.	8.9	38
36	Comparison of Brain Transcriptome of the Greater Horseshoe Bats (Rhinolophus ferrumequinum) in Active and Torpid Episodes. PLoS ONE, 2014, 9, e107746.	2.5	37

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37	Progressive Pseudogenization: Vitamin C Synthesis and Its Loss in Bats. Molecular Biology and Evolution, 2011, 28, 1025-1031.	8.9	36
38	Seasonality of matings and births in captive Sichuan golden monkeys (Rhinopithecus roxellana). American Journal of Primatology, 2000, 51, 265-269.	1.7	31
39	Discovery of Diverse Rodent and Bat Pestiviruses With Distinct Genomic and Phylogenetic Characteristics in Several Chinese Provinces. Frontiers in Microbiology, 2018, 9, 2562.	3.5	30
40	As Blind as a Bat? Opsin Phylogenetics Illuminates the Evolution of Color Vision in Bats. Molecular Biology and Evolution, 2019, 36, 54-68.	8.9	28
41	Multiple bursts of pancreatic ribonuclease gene duplication in insect-eating bats. Gene, 2013, 526, 112-117.	2.2	27
42	Echolocation Calls, Diet, and Phylogenetic Relationships of Stoliczka's Trident Bat, Aselliscus stoliczkanus (Hipposideridae). Journal of Mammalogy, 2007, 88, 736-744.	1.3	26
43	Historical introgression and the persistence of ghost alleles in the intermediate horseshoe bat (Rhinolophus affinis). Molecular Ecology, 2013, 22, 1035-1050.	3.9	26
44	Adaptive Evolution in the Glucose Transporter 4 Gene Slc2a4 in Old World Fruit Bats (Family:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	2.5	25
45	Comparative inner ear transcriptome analysis between the Rickettâ€™s big-footed bats (Myotis ricketti) and the greater short-nosed fruit bats (Cynopterus sphinx). BMC Genomics, 2013, 14, 916.	2.8	25
46	Unique expression patterns of multiple key genes associated with the evolution of mammalian flight. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133133.	2.6	25
47	Comparison of whole embryonic development in the duck (Anas platyrhynchos) and goose (Anser) Tj ETQq1 1 0.784314 rgBT /Overlock	3.4	25
48	Recent Loss of Vitamin C Biosynthesis Ability in Bats. PLoS ONE, 2011, 6, e27114.	2.5	25
49	Multiple Adaptive Losses of Alanine-Glyoxylate Aminotransferase Mitochondrial Targeting in Fruit-Eating Bats. Molecular Biology and Evolution, 2012, 29, 1507-1511.	8.9	23
50	Prestin and high frequency hearing in mammals. Communicative and Integrative Biology, 2011, 4, 236-239.	1.4	22
51	Down but Not Out: The Role of MicroRNAs in Hibernating Bats. PLoS ONE, 2015, 10, e0135064.	2.5	22
52	Circular RNA Profiling Identifies Novel circPPARA that Promotes Intramuscular Fat Deposition in Pigs. Journal of Agricultural and Food Chemistry, 2022, 70, 4123-4137.	5.2	22
53	Evolution of opsin genes reveals a functional role of vision in the echolocating little brown bat (Myotis lucifugus). Biochemical Systematics and Ecology, 2009, 37, 154-161.	1.3	20
54	Genetic diversity of coronaviruses in Miniopterus fuliginosus bats. Science China Life Sciences, 2016, 59, 604-614.	4.9	20

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55	Genetic characteristics of H9N2 avian influenza viruses isolated from free-range poultry in Eastern China, in 2014â€“2015. Poultry Science, 2018, 97, 3793-3800.	3.4	20
56	Molecular signatures and functional analysis of beige adipocytes induced from in vivo intra-abdominal adipocytes. Science Advances, 2018, 4, eaar5319.	10.3	18
57	Differential Expression of Meis2, Mab21l2 and Tbx3 during Limb Development Associated with Diversification of Limb Morphology in Mammals. PLoS ONE, 2014, 9, e106100.	2.5	17
58	Following of Brown Capuchin Monkeys by White Hawks in French Guiana. Condor, 2000, 102, 198-201.	1.6	16
59	Dietary composition and echolocation call design of three sympatric insectivorous bat species from China. Ecological Research, 2008, 23, 113-119.	1.5	16
60	Differential introgression among loci across a hybrid zone of the intermediate horseshoe bat (Rhinolophus affinis). BMC Evolutionary Biology, 2014, 14, 154.	3.2	16
61	Identification of Candidate Circular RNAs Underlying Intramuscular Fat Content in the Donkey. Frontiers in Genetics, 2020, 11, 587559.	2.3	16
62	DIETARY CHARACTERISTICS OF MYOTIS RICKETTI IN BEIJING, NORTH CHINA. Journal of Mammalogy, 2006, 87, 339-344.	1.3	15
63	Molecular Data Support an Early Shift to an Intermediate-Light Niche in the Evolution of Mammals. Molecular Biology and Evolution, 2018, 35, 1130-1134.	8.9	15
64	Critical roles of mitochondria in brain activities of torpid Myotis ricketti bats revealed by a proteomic approach. Journal of Proteomics, 2014, 105, 266-284.	2.4	14
65	Prestin Shows Divergent Evolution Between Constant Frequency Echolocating Bats. Journal of Molecular Evolution, 2011, 73, 109-115.	1.8	13
66	Immunohistochemical evidence of cone-based ultraviolet vision in divergent bat species and implications for its evolution. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2012, 161, 398-403.	1.6	12
67	Co-activation of Akt, Nrf2, and NF-Î°B signals under UPRER in torpid Myotis ricketti bats for survival. Communications Biology, 2020, 3, 658.	4.4	11
68	Unveiling the Biogeography and Potential Functions of the Intestinal Digesta- and Mucosa-Associated Microbiome of Donkeys. Frontiers in Microbiology, 2020, 11, 596882.	3.5	11
69	Adaptive Evolution of the Myo6 Gene in Old World Fruit Bats (Family: Pteropodidae). PLoS ONE, 2013, 8, e62307.	2.5	10
70	Molecular Evolution of the Nuclear Factor (Erythroid-Derived 2)-Like 2 Gene Nrf2 in Old World Fruit Bats (Chiroptera: Pteropodidae). PLoS ONE, 2016, 11, e0146274.	2.5	10
71	Retention and losses of ultraviolet-sensitive visual pigments in bats. Scientific Reports, 2018, 8, 11933.	3.3	10
72	Scotopic rod vision in tetrapods arose from multiple early adaptive shifts in the rate of retinal release. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12627-12628.	7.1	10

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73	Independent Losses of Visual Perception Genes Gja10 and Rbp3 in Echolocating Bats (Order:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	9
74	Homocysteine Homeostasis and Betaine-Homocysteine S-Methyltransferase Expression in the Brain of Hibernating Bats. PLoS ONE, 2013, 8, e85632.	2.5	9
75	Heteroplasmy and Ancient Translocation of Mitochondrial DNA to the Nucleus in the Chinese Horseshoe Bat (Rhinolophus sinicus) Complex. PLoS ONE, 2014, 9, e98035.	2.5	9
76	Synergy betweenMC1RandASIPfor coat color in horses (Equus caballus)1. Journal of Animal Science, 2019, 97, 1578-1585.	0.5	9
77	Differences in the gut microbiomes of dogs and wolves: roles of antibiotics and starch. BMC Veterinary Research, 2021, 17, 112.	1.9	9
78	Adaptive Functional Diversification of Lysozyme in Insectivorous Bats. Molecular Biology and Evolution, 2014, 31, 2829-2835.	8.9	8
79	Prolonged treatment with 3-isobutyl-1-methylxanthine improves the efficiency of differentiating 3T3-L1 cells into adipocytes. Analytical Biochemistry, 2016, 507, 18-20.	2.4	8
80	Repetitive transpositions of mitochondrial DNA sequences to the nucleus during the radiation of horseshoe bats (Rhinolophus, Chiroptera). Gene, 2016, 581, 161-169.	2.2	8
81	Fruit bats as a natural reservoir of zoonotic viruses. Science Bulletin, 2003, 48, 1179-1182.	1.7	7
82	Characteristics of echolocating batsâ€™ auditory stereocilia length, compared with other mammals. Science in China Series C: Life Sciences, 2007, 50, 492-496.	1.3	7
83	The Great Roundleaf Bat (Hipposideros armiger) as a Good Model for Cold-Induced Browning of Intra-Abdominal White Adipose Tissue. PLoS ONE, 2014, 9, e112495.	2.5	7
84	Phosphoenolpyruvate Carboxykinase 1 Gene (Pck1) Displays Parallel Evolution between Old World and New World Fruit Bats. PLoS ONE, 2015, 10, e0118666.	2.5	7
85	Relationship between echolocation frequency and body size in two species of hipposiderid bats. Science Bulletin, 2000, 45, 1587-1590.	1.7	6
86	Adaptive evolution of tight junction protein claudin-14 in echolocating whales. Gene, 2013, 530, 208-214.	2.2	6
87	Relaxed Evolution in the Tyrosine Aminotransferase Gene Tat in Old World Fruit Bats (Chiroptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	2.5	6
88	Parallel Evolution of the Glycogen Synthase 1 (Muscle) Gene Gys1 Between Old World and New World Fruit Bats (Order: Chiroptera). Biochemical Genetics, 2014, 52, 443-458.	1.7	6
89	Adaptive Evolution of Feline Coronavirus Genes Based on Selection Analysis. BioMed Research International, 2020, 2020, 1-7.	1.9	6
90	Pooled Sequencing Analysis of Geese (Anser cygnoides) Reveals Genomic Variations Associated With Feather Color. Frontiers in Genetics, 2021, 12, 650013.	2.3	6

#	Article	IF	Citations
91	The Glycogen Synthase 2 Gene (Gys2) Displays Parallel Evolution Between Old World and New World Fruit Bats. Journal of Molecular Evolution, 2014, 78, 66-74.	1.8	5
92	Differential introgression suggests candidate beneficial and barrier loci between two parapatric subspecies of Pearsonâ€²s horseshoe bat Rhinolophus pearsoni. Environmental Epigenetics, 2016, 62, 405-412.	1.8	5
93	Introgression of mitochondrial DNA promoted by natural selection in the Japanese pipistrelle bat (Pipistrellus abramus). Genetica, 2014, 142, 483-494.	1.1	4
94	Maintenance of neural activities in torpid Rhinolophus ferrumequinum bats revealed by 2D gel-based proteome analysis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1004-1019.	2.3	4
95	Accelerated Evolution of Limb-Related Gene Hoxd11 in the Common Ancestor of Cetaceans and Ruminants (Cetruminantia). G3: Genes, Genomes, Genetics, 2020, 10, 515-524.	1.8	4
96	Mucosal Microbiota and Metabolome in the Ileum of Hu Sheep Offered a Low-Grain, Pelleted or Non-pelleted High-Grain Diet. Frontiers in Microbiology, 2021, 12, 718884.	3.5	4
97	Spatial pattern in the foraging group of Sichuan golden monkeys. Science Bulletin, 1999, 44, 1369-1372.	1.7	3
98	Development and characterization of novel microsatellite markers from the Chinese rufous horseshoe bat (Rhinolophus sinicus) with crossâ€species amplification in closely related taxa. Molecular Ecology Resources, 2009, 9, 183-185.	4.8	3
99	Whole Genome Sequencing Reveals Signatures for Artificial Selection for Different Sizes in Japanese Primitive Dog Breeds. Frontiers in Genetics, 2021, 12, 671686.	2.3	3
100	Comparison of Coated and Uncoated Trace Minerals on Growth Performance, Tissue Mineral Deposition, and Intestinal Microbiota in Ducks. Frontiers in Microbiology, 2022, 13, 831945.	3.5	3
101	OB-RL silencing inhibits the thermoregulatory ability of Great Roundleaf Bats (Hipposideros armiger). General and Comparative Endocrinology, 2014, 204, 80-87.	1.8	2
102	BGD: A Database of Bat Genomes. PLoS ONE, 2015, 10, e0131296.	2.5	2
103	A missense mutation in ASIP is associated with light point variation in donkeys. Animal Genetics, 2020, 51, 629-629.	1.7	2
104	Parallel Independent Losses of G-Type Lysozyme Genes in Hairless Aquatic Mammals. Genome Biology and Evolution, 2021, 13, .	2.5	2
105	The complete mitochondrial genome of the king horseshoe bat (Rhinolophus rex) using next-generation sequencing and Sanger sequencing. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 4545-4546.	0.7	1
106	Parallel Amino Acid Deletions of Prestin Protein in Two Dramatically Divergent Bat Lineages Suggest the Complexity of the Evolution of Echolocation in Bats. Acta Chiropterologica, 2019, 20, 311.	0.6	1
107	Echolocation calls ofMyotis frater (Chiroptera: Hipposideridae) during search flight. Science Bulletin, 2000, 45, 1690-1692.	1.7	0
108	A complete mitochondrial genome of the Damaraland mole rat Fukomys damarensis retrieved from the published genome of the brandt's bat Myotis brandtii. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 4282-4283.	0.7	0

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109	HUMAN-LIKE MENSTRUAL CYCLE EXHIBITED BY WILD FULVOUS BATS (Rousettus leschenaultia). Biology of Reproduction, 2007, 77, 157-157.	2.7	0
110	Adaptive Evolution of the Fox Coronavirus Based on Genome-Wide Sequence Analysis. BioMed Research International, 2022, 2022, 1-8.	1.9	0