Zhang Zhibin

List of Publications by Year
in descending order

121 papers	4,103 citations	136950 32 h-index	138484 58 g-index
127 all docs	127 docs citations	127 times ranked	3909 citing authors

#	Article	IF	Citations
1	Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems. Science, 2017, 355, .	12.6	260
2	Mice, rats, and people: the bio-economics of agricultural rodent pests. Frontiers in Ecology and the Environment, 2003, 1, 367-375.	4.0	241
3	Addressing Chinaâ€™s grand challenge of achieving food security while ensuring environmental sustainability. Science Advances, 2015, 1, e1400039.	10.3	182
4	Using seed-tagging methods for assessing post-dispersal seed fate in rodent-dispersed trees. Forest Ecology and Management, 2006, 223, 18-23.	3.2	175
5	Burrowing rodents as ecosystem engineers: the ecology and management of plateau zokors Myospalax fontanierii in alpine meadow ecosystems on the Tibetan Plateau. Mammal Review, 2003, 33, 284-294.	4.8	159
6	Effects of seed size on dispersal distance in five rodent-dispersed fagaceous species. Acta Oecologica, 2005, 28, 221-229.	1.1	146
7	Hippocampal adult neurogenesis: Its regulation and potential role in spatial learning and memory. Brain Research, 2016, 1644, 127-140.	2.2	117
8	Effects of mast seeding and rodent abundance on seed predation and dispersal by rodents in Prunus armeniaca (Rosaceae). Forest Ecology and Management, 2007, 242, 511-517.	3.2	109
9	Spatial and temporal variation of seed predation and removal of sympatric large-seeded species in relation to innate seed traits in a subtropical forest, Southwest China. Forest Ecology and Management, 2006, 222, 46-54.	3.2	98
10	Extrinsic and intrinsic factors determine the eruptive dynamics of Brandt's voles Microtus brandti in Inner Mongolia, China. Oikos, 2003, 100, 299-310.	2.7	94
11	Periodic climate cooling enhanced natural disasters and wars in China during AD 10â€“1900. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3745-3753.	2.6	89
12	Longâ€term seed survival and dispersal dynamics in a rodentâ€dispersed tree: testing the predator satiation hypothesis and the predator dispersal hypothesis. Journal of Ecology, 2013, 101, 1256-1264.	4.0	87
13	Mutualism or cooperation among competitors promotes coexistence and competitive ability. Ecological Modelling, 2003, 164, 271-282.	2.5	86
14	Reconstruction of a 1,910-y-long locust series reveals consistent associations with climate fluctuations in China. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14521-14526.	7.1	85
15	Human impact and climate cooling caused range contraction of large mammals in China over the past two millennia. Ecography, 2015, 38, 74-82.	4.5	80
16	Nonlinear effect of climate on plague during the third pandemic in China. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10214-10219.	7.1	74
17	The effects of seed abundance on seed predation and dispersal by rodents in Castanopsis fargesii (Fagaceae). Plant Ecology, 2005, 177, 249-257.	1.6	73
18	Endocarp thickness affects seed removal speed by small rodents in a warm-temperate broad-leafed deciduous forest, China. Acta Oecologica, 2008, 34, 285-293.	1.1	72

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19	Behavioral adaptation of Pallas's squirrels to germination schedule and tannins in acorns. Behavioral Ecology, 2009, 20, 1050-1055.	2.2	66
20	Wet climate and transportation routes accelerate spread of human plague. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133159.	2.6	53
21	Seed traits and taxonomic relationships determine the occurrence of mutualisms <i>versus</i> seed predation in a tropical forest rodent and seed dispersal system. Integrative Zoology, 2014, 9, 309-319.	2.6	52
22	Periodic temperature-associated drought/flood drives locust plagues in China. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 823-831.	2.6	51
23	Historical records reveal the distinctive associations of human disturbance and extreme climate change with local extinction of mammals. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19001-19008.	7.1	49
24	Differential foraging preferences on seed size by rodents result in higher dispersal success of mediumâ€sized seeds. Ecology, 2016, 97, 3070-3078.	3.2	47
25	Simulation of lethal control and fertility control in a demographic model for Brandtâ€™s vole Microtus brandti. Journal of Applied Ecology, 2002, 39, 337-348.	4.0	46
26	Seed predation and dispersal of glabrous filbert (Corylus Heterophylla) and pilose filbert (Corylus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 135-142.	1.6	46
27	Trade-off between seed defensive traits and impacts on interaction patterns between seeds and rodents in forest ecosystems. Plant Ecology, 2016, 217, 253-265.	1.6	44
28	Effects of seed abundance on seed scatter-hoarding of Edwardâ€™s rat (Leopoldamys edwardsi Muridae) at the individual level. Oecologia, 2008, 158, 57-63.	2.0	43
29	Functional traits determine formation of mutualism and predation interactions in seed-rodent dispersal system of a subtropical forest. Acta Oecologica, 2014, 55, 43-50.	1.1	43
30	Acorn Pericarp Removal as a Cache Management Strategy of the Siberian Chipmunk, <i>Tamias sibiricus</i>. Ethology, 2012, 118, 87-94.	1.1	37
31	Ecological non-monotonicity and its effects on complexity and stability of populations, communities and ecosystems. Ecological Modelling, 2015, 312, 374-384.	2.5	36
32	Cultivated walnut trees showed earlier but not final advantage over its wild relatives in competing for seed dispersers. Integrative Zoology, 2017, 12, 12-25.	2.6	36
33	Dietary shifts influenced by livestock grazing shape the gut microbiota composition and coâ€occurrence networks in a local rodent species. Journal of Animal Ecology, 2019, 88, 302-314.	2.8	36
34	Identification of Chinese plague foci from long-term epidemiological data. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8196-8201.	7.1	33
35	The trophic responses of two different rodentâ€"vectorâ€"plague systems to climate change. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141846.	2.6	33
36	Seed trait-mediated selection by rodents affects mutualistic interactions and seedling recruitment of co-occurring tree species. Oecologia, 2016, 180, 475-484.	2.0	32

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37	Interspecific synchrony of seed rain shapes rodentâ€mediated indirect seedâ€“seed interactions of sympatric tree species in a subtropical forest. Ecology Letters, 2020, 23, 45-54.	6.4	32
38	Weak olfaction increases seed scatterâ€hoarding by Siberian chipmunks: implication in shaping plantâ€“animal interactions. Oikos, 2016, 125, 1712-1718.	2.7	31
39	Nut predation andÂdispersal ofÂHarland Tanoak LithocarpusÂharlandii byÂscatter-hoarding rodents. Acta Oecologica, 2006, 29, 205-213.	1.1	30
40	Seed dispersal of Korean pine <i>Pinus koraiensis</i> labeled by two different tags in a northern temperate forest, northeast China. Ecological Research, 2008, 23, 379-384.	1.5	30
41	Does scatterâ€hoarding of seeds benefit cache owners or pilferers?. Integrative Zoology, 2017, 12, 477-488.	2.6	30
42	Mutualism between antagonists: its ecological and evolutionary implications. Integrative Zoology, 2021, 16, 84-96.	2.6	30
43	Host-microbiota interaction helps to explain the bottom-up effects of climate change on a small rodent species. ISME Journal, 2020, 14, 1795-1808.	9.8	29
44	Scale-dependent climatic drivers of human epidemics in ancient China. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12970-12975.	7.1	28
45	Ecological succession drives the structural change of seed-rodent interaction networks in fragmented forests. Forest Ecology and Management, 2018, 419-420, 42-50.	3.2	28
46	Laboratory domestication changed the expression patterns of oxytocin and vasopressin in brains of rats and mice. Anatomical Science International, 2016, 91, 358-370.	1.0	27
47	The combined effects of seed perishability and seed size on hoarding decisions by PÃ©re Davidâ€™s rock squirrels. Behavioral Ecology and Sociobiology, 2013, 67, 1067-1075.	1.4	26
48	Mutualistic and predatory interactions are driven by rodent body size and seed traits in a rodentâ€“seed system in warm-temperate forest in northern China. Wildlife Research, 2015, 42, 149.	1.4	26
49	Contrasting patterns of shortâ€term indirect seedâ€“seed interactions mediated by scatterâ€hoarding rodents. Journal of Animal Ecology, 2016, 85, 1370-1377.	2.8	26
50	The status of fertility control for rodentsâ€"recent achievements and future directions. Integrative Zoology, 2022, 17, 964-980.	2.6	26
51	Effect of synthetic hormones on reproduction in Mastomys natalensis. Journal of Pest Science, 2018, 91, 157-168.	3.7	25
52	Historical and genomic data reveal the influencing factors on global transmission velocity of plague during the Third Pandemic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11833-11838.	7.1	25
53	The outbreak pattern of SARS cases in China as revealed by a mathematical model. Ecological Modelling, 2007, 204, 420-426.	2.5	24
54	Successive sheep grazing reduces population density of Brandtâ€™s voles in steppe grassland by altering food resources: a large manipulative experiment. Oecologia, 2016, 180, 149-159.	2.0	24

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55	Mechanically evoked defensive attack is controlled by GABAergic neurons in the anterior hypothalamic nucleus. Nature Neuroscience, 2022, 25, 72-85.	14.8	23
56	Food hoarding behaviour of large field mouseApodemus peninsulae. Acta Theriologica, 2005, 50, 51-58.	1.1	22
57	Risk of cache pilferage determines hoarding behavior of rodents and seed fate. Behavioral Ecology, 2018, 29, 984-991.	2.2	22
58	High housing density increases stress hormone- or disease-associated fecal microbiota in male Brandt's voles (Lasiopodomys brandtii). Hormones and Behavior, 2020, 126, 104838.	2.1	21
59	Agricultural irrigation mediates climatic effects and density dependence in population dynamics of <scp>C</scp>hinese striped hamster in <scp>N</scp>orth <scp>C</scp>hina <scp>P</scp>lain. Journal of Animal Ecology, 2013, 82, 334-344.	2.8	20
60	Sheep grazing causes shift in sex ratio and cohort structure of Brandt's vole: Implication of their adaptation to food shortage. Integrative Zoology, 2016, 11, 76-84.	2.6	19
61	Climate warming and humans played different roles in triggering Late Quaternary extinctions in east and west Eurasia. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162438.	2.6	19
62	Rodent-favored cache sites do not favor seedling establishment of shade-intolerant wild apricot (Prunus armeniaca Linn.) in northern China. Plant Ecology, 2013, 214, 531-543.	1.6	17
63	Hoarding without reward: Rodent responses to repeated episodes of complete cache loss. Behavioural Processes, 2014, 106, 36-43.	1.1	17
64	Species coâ€occurrence and phylogenetic structure of terrestrial vertebrates at regional scales. Global Ecology and Biogeography, 2016, 25, 455-463.	5.8	17
65	Quantifying the effects of climate and anthropogenic change on regional species loss in China. PLoS ONE, 2018, 13, e0199735.	2.5	17
66	Specific non-monotonous interactions increase persistence of ecological networks. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132797.	2.6	16
67	Past climate change and recent anthropogenic activities affect genetic structure and population demography of the greater longâ€tailed hamster in northern China. Integrative Zoology, 2015, 10, 482-496.	2.6	16
68	Influence of operational sex ratio and density on the copulatory behaviour and mating system of Brandtâ€™s voleMicrotus brandti. Acta Theriologica, 2003, 48, 335-346.	1.1	15
69	Effects of masting on seedling establishment of a rodentâ€dispersed tree species in a warmâ€temperate region, northern China. Integrative Zoology, 2021, 16, 97-108.	2.6	15
70	Sensitivity to Seed Germination Schedule by Scatterâ€Hoarding <scp>P</scp>Ã©re <scp>D</scp>avid's Rock Squirrels During Mast and Nonâ€Mast Years. Ethology, 2013, 119, 472-479.	1.1	14
71	Densityâ€induced social stress alters oxytocin and vasopressin activities in the brain of a small rodent species. Integrative Zoology, 2021, 16, 149-159.	2.6	14
72	Large manipulative experiments reveal complex effects of food supplementation on population dynamics of Brandtâ€™s voles. Science China Life Sciences, 2017, 60, 911-920.	4.9	12

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73	Human plague system associated with rodent diversity and other environmental factors. Royal Society Open Science, 2019, 6, 190216.	2.4	12
74	Rodent abundance triggered switch between the relative mutualism and predation in a rodentâ€"seed system of the subtropical island forest. Integrative Zoology, 2021, 16, 109-119.	2.6	12
75	Sex- and age-specific variation of gut microbiota in Brandtâ€™s voles. PeerJ, 2021, 9, e11434.	2.0	12
76	Human disturbance, climate and biodiversity determine biological invasion at a regional scale. Integrative Zoology, 2006, 1, 130-138.	2.6	11
77	Effect of seed availability on hoarding behaviors of Siberian chipmunk (Tamias sibiricus) in semi-natural enclosures. Mammalia, 2011, 75, .	0.7	11
78	Intra- and interspecific interactions and environmental factors determine spatialâ€"temporal species assemblages of rodents in arid grasslands. Landscape Ecology, 2015, 30, 1643-1655.	4.2	10
79	Population variation alters aggression-associated oxytocin and vasopressin expressions in brains of Brandtâ€™s voles in field conditions. Frontiers in Zoology, 2021, 18, 56.	2.0	10
80	Factors influencing range contraction of a rodent herbivore in a steppe grassland over the past decades. Ecology and Evolution, 2022, 12, e8546.	1.9	10
81	Changes in the morphology and protein expression of germ cells and Sertoli cells in plateau pikas testes during non-breeding season. Scientific Reports, 2016, 6, 22697.	3.3	9
82	Organochlorine Pesticide Ban Facilitated Reproductive Recovery of Chinese Striped Hamsters. Environmental Science & Technology, 2021, 55, 6140-6149.	10.0	9
83	Evolutionary and ecological patterns of scatterâ€and larderâ€hoarding behaviours in rodents. Ecology Letters, 2022, 25, 1202-1214.	6.4	9
84	The outbreak pattern of the SARS cases in Asia. Science Bulletin, 2004, 49, 1819-1823.	1.7	8
85	Effect of ENSOâ€driven precipitation on population irruptions of the Yangtze vole <i>Microtus fortis calamorum</i> in the Dongting Lake region of China. Integrative Zoology, 2010, 5, 176-184.	2.6	8
86	Reproductive responses of rice field rats (<i>Rattus argentiventer</i>) following treatment with the contraceptive hormones, quinestrol and levonorgestrol. Integrative Zoology, 2022, 17, 1017-1027.	2.6	8
87	Timing outweighs magnitude of rainfall in shaping population dynamics of a small mammal species in steppe grassland. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
88	Phylogenetic relatedness, functional traits, and spatial scale determine herbivore coâ€occurrence in a subtropical forest. Ecological Monographs, 2022, 92, e01492.	5.4	8
89	Food limitation and low-density populations of sympatric hamster species in North China. Contributions To Zoology, 2009, 78, 65-75.	0.5	7
90	Ratio-dependent effects of quinestrol and levonorgestrel compounds (EP-1) on reproductive parameters of adult male Swiss mice. Pesticide Biochemistry and Physiology, 2019, 160, 181-186.	3.6	7

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91	Regulation of social behaviors by p-Stat3 via oxytocin and its receptor in the nucleus accumbens of male Brandt's voles (Lasiopodomys brandtii). Hormones and Behavior, 2020, 119, 104638.	2.1	7
92	Variation of Genetic Diversity in a Rapidly Expanding Population of the Greater Long-Tailed Hamster (Tscherskia triton) as Revealed by Microsatellites. PLoS ONE, 2013, 8, e54171.	2.5	6
93	Differences in mutualistic or predatory interactions between tree and rodent species as revealed by using a double-duplex passive integrated transponder tagging technique. Acta Oecologica, 2021, 112, 103747.	1.1	6
94	The Role Transition of Dietary Species Richness in Modulating the Gut Microbial Assembly and Postweaning Performance of a Generalist Herbivore. MSystems, 2021, 6, e0097921.	3.8	6
95	Relationship between El NiÃ±o /South Oscillation (ENSO) and population outbreaks of some lemmings and voles in Europe. Science Bulletin, 2001, 46, 1067-1073.	1.7	5
96	Dome-shaped transition between positive and negative interactions maintains higher persistence and biomass in more complex ecological networks. Ecological Modelling, 2018, 370, 14-21.	2.5	5
97	Dominant and Subordinate Relationship Formed by Repeated Social Encounters Alters Gut Microbiota in Greater Long-Tailed Hamsters. Microbial Ecology, 2020, 79, 998-1010.	2.8	5
98	Modeling analysis revealed the distinct global transmission patterns of influenza A viruses and their influencing factors. Integrative Zoology, 2021, 16, 788-797.	2.6	5
99	Loss of top predators and fragmentation lead to the decline of dominant plants in forests: a balance needed for conservation and management on overabundant large herbivore species. Integrative Zoology, 2022, 17, 231-233.	2.6	5
100	Gut microbiota reflect the crowding stress of space shortage, physical and non-physical contact in Brandtâ€™s voles (Lasiopodomys brandtii). Microbiological Research, 2022, 255, 126928.	5.3	5
101	A rodent herbivore reduces its predation risk through ecosystem engineering. Current Biology, 2022, 32, 1869-1874.e4.	3.9	5
102	Eighteen novel microsatellite markers for the greater long-tailed hamster (Tscherskia triton). Conservation Genetics, 2010, 11, 1227-1230.	1.5	4
103	Impacts of consumerâ€“resource interaction transitions on persistence and longâ€term interaction outcomes of random ecological networks. Oikos, 2019, 128, 1147-1157.	2.7	4
104	Climate change affected the spatio-temporal occurrence of disasters in China over the past five centuries. Royal Society Open Science, 2021, 8, 200731.	2.4	4
105	Modeling analysis reveals the transmission trend of COVID-19 and control efficiency of human intervention. BMC Infectious Diseases, 2021, 21, 849.	2.9	4
106	Mice, Rats, and People: The Bio-Economics of Agricultural Rodent Pests. Frontiers in Ecology and the Environment, 2003, 1, 367.	4.0	4
107	Habitats Show More Impacts Than Host Species in Shaping Gut Microbiota of Sympatric Rodent Species in a Fragmented Forest. Frontiers in Microbiology, 2022, 13, 811990.	3.5	4
108	Revealing the realâ€time diversity and abundance of small mammals by using an Intelligent Animal Monitoring System (IAMS). Integrative Zoology, 2022, 17, 1121-1135.	2.6	4

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109	Infection of SARS-CoV on juvenile and adult Brandtâ€™s voleMicrotus brandtii. Science Bulletin, 2005, 50, 1199-1204.	1.7	3
110	The highly polymorphic microsatellite markers for the greater long-tailed hamster (Tscherskia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.7	3
111	The relationship between local and regional extinction rates depends on species distribution patterns. Ecography, 2022, 2022, .	4.5	3
112	Concepts, measurements and scientific problems of biocomplexity. Integrative Zoology, 2007, 2, 100-110.	2.6	2
113	Combined effects of intra- and inter-specific non-monotonic functions on the stability of a two-species system. Ecological Complexity, 2018, 33, 49-56.	2.9	2
114	Host and geographic barriers shape the competition, coexistence, and extinction patterns of influenza A (H1N1) viruses. Ecology and Evolution, 2022, 12, e8732.	1.9	2
115	Identifying the spatiotemporal clusters of plague occurrences in China during the Third Pandemic. Integrative Zoology, 2020, 15, 69-78.	2.6	1
116	Remarks on behalf of the Editorial Board ofIntegrative Zoology. Integrative Zoology, 2006, 1, 1-1.	2.6	0
117	Integration of ecology and biology for the management of rodents: International perspectives 1. Integrative Zoology, 2007, 2, 121-122.	2.6	0
118	Integration of ecology and biology for the management of rodents: International perspectives 3. Integrative Zoology, 2008, 3, 1-2.	2.6	0
119	International Society of Zoological Sciences: home and hope for global zoologists. Integrative Zoology, 2008, 3, 67-67.	2.6	0
120	<i>Integrative Zoology</i> is proud to honor Darwin's legacy by supporting the study of biological and zoological sciences. Integrative Zoology, 2010, 5, 87-87.	2.6	0
121	A landmark of <i>Integrative Zoology</i>'s development. Integrative Zoology, 2016, 11, 423-423.	2.6	0