

Zhang Zhibin

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

4,103
citations

136950

32
h-index

138484

58
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127
all docs

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docs citations

127
times ranked

3909
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Integrative Zoology</i> , 2022, 17, 231-233.	2.6	5
2	The status of fertility control for rodentsâ€™ recent achievements and future directions. <i>Integrative Zoology</i> , 2022, 17, 964-980.	2.6	26
3	Reproductive responses of rice field rats (<i>Rattus argentiventer</i>) following treatment with the contraceptive hormones, quinestrol and levonorgestrol. <i>Integrative Zoology</i> , 2022, 17, 1017-1027.	2.6	8
4	Phylogenetic relatedness, functional traits, and spatial scale determine herbivore co-occurrence in a subtropical forest. <i>Ecological Monographs</i> , 2022, 92, e01492.	5.4	8
5	Gut microbiota reflect the crowding stress of space shortage, physical and non-physical contact in Brandt's voles (<i>Lasiopodomys brandtii</i>). <i>Microbiological Research</i> , 2022, 255, 126928.	5.3	5
6	Mechanically evoked defensive attack is controlled by GABAergic neurons in the anterior hypothalamic nucleus. <i>Nature Neuroscience</i> , 2022, 25, 72-85.	14.8	23
7	The relationship between local and regional extinction rates depends on species distribution patterns. <i>Ecography</i> , 2022, 2022, .	4.5	3
8	Habitats Show More Impacts Than Host Species in Shaping Gut Microbiota of Sympatric Rodent Species in a Fragmented Forest. <i>Frontiers in Microbiology</i> , 2022, 13, 811990.	3.5	4
9	Factors influencing range contraction of a rodent herbivore in a steppe grassland over the past decades. <i>Ecology and Evolution</i> , 2022, 12, e8546.	1.9	10
10	Evolutionary and ecological patterns of scatter and larder hoarding behaviours in rodents. <i>Ecology Letters</i> , 2022, 25, 1202-1214.	6.4	9
11	A rodent herbivore reduces its predation risk through ecosystem engineering. <i>Current Biology</i> , 2022, 32, 1869-1874.e4.	3.9	5
12	Host and geographic barriers shape the competition, coexistence, and extinction patterns of influenza A (H1N1) viruses. <i>Ecology and Evolution</i> , 2022, 12, e8732.	1.9	2
13	Revealing the real-time diversity and abundance of small mammals by using an Intelligent Animal Monitoring System (IAMS). <i>Integrative Zoology</i> , 2022, 17, 1121-1135.	2.6	4
14	Modeling analysis revealed the distinct global transmission patterns of influenza A viruses and their influencing factors. <i>Integrative Zoology</i> , 2021, 16, 788-797.	2.6	5
15	Effects of masting on seedling establishment of a rodent-dispersed tree species in a warm-temperate region, northern China. <i>Integrative Zoology</i> , 2021, 16, 97-108.	2.6	15
16	Rodent abundance triggered switch between the relative mutualism and predation in a rodent-seed system of the subtropical island forest. <i>Integrative Zoology</i> , 2021, 16, 109-119.	2.6	12
17	Density-induced social stress alters oxytocin and vasopressin activities in the brain of a small rodent species. <i>Integrative Zoology</i> , 2021, 16, 149-159.	2.6	14
18	Mutualism between antagonists: its ecological and evolutionary implications. <i>Integrative Zoology</i> , 2021, 16, 84-96.	2.6	30

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19	Climate change affected the spatio-temporal occurrence of disasters in China over the past five centuries. <i>Royal Society Open Science</i> , 2021, 8, 200731.	2.4	4
20	Organochlorine Pesticide Ban Facilitated Reproductive Recovery of Chinese Striped Hamsters. <i>Environmental Science & Technology</i> , 2021, 55, 6140-6149.	10.0	9
21	Sex- and age-specific variation of gut microbiota in Brandt's voles. <i>PeerJ</i> , 2021, 9, e11434.	2.0	12
22	Modeling analysis reveals the transmission trend of COVID-19 and control efficiency of human intervention. <i>BMC Infectious Diseases</i> , 2021, 21, 849.	2.9	4
23	Differences in mutualistic or predatory interactions between tree and rodent species as revealed by using a double-duplex passive integrated transponder tagging technique. <i>Acta Oecologica</i> , 2021, 112, 103747.	1.1	6
24	Timing outweighs magnitude of rainfall in shaping population dynamics of a small mammal species in steppe grassland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
25	Population variation alters aggression-associated oxytocin and vasopressin expressions in brains of Brandt's voles in field conditions. <i>Frontiers in Zoology</i> , 2021, 18, 56.	2.0	10
26	The Role Transition of Dietary Species Richness in Modulating the Gut Microbial Assembly and Postweaning Performance of a Generalist Herbivore. <i>MSystems</i> , 2021, 6, e0097921.	3.8	6
27	Identifying the spatiotemporal clusters of plague occurrences in China during the Third Pandemic. <i>Integrative Zoology</i> , 2020, 15, 69-78.	2.6	1
28	Interspecific synchrony of seed rain shapes rodent-mediated indirect seed-seed interactions of sympatric tree species in a subtropical forest. <i>Ecology Letters</i> , 2020, 23, 45-54.	6.4	32
29	Dominant and Subordinate Relationship Formed by Repeated Social Encounters Alters Gut Microbiota in Greater Long-Tailed Hamsters. <i>Microbial Ecology</i> , 2020, 79, 998-1010.	2.8	5
30	Regulation of social behaviors by p-Stat3 via oxytocin and its receptor in the nucleus accumbens of male Brandt's voles (<i>Lasiopodomys brandtii</i>). <i>Hormones and Behavior</i> , 2020, 119, 104638.	2.1	7
31	High housing density increases stress hormone- or disease-associated fecal microbiota in male Brandt's voles (<i>Lasiopodomys brandtii</i>). <i>Hormones and Behavior</i> , 2020, 126, 104838.	2.1	21
32	Host-microbiota interaction helps to explain the bottom-up effects of climate change on a small rodent species. <i>ISME Journal</i> , 2020, 14, 1795-1808.	9.8	29
33	Historical records reveal the distinctive associations of human disturbance and extreme climate change with local extinction of mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19001-19008.	7.1	49
34	Ratio-dependent effects of quinestrol and levonorgestrel compounds (EP-1) on reproductive parameters of adult male Swiss mice. <i>Pesticide Biochemistry and Physiology</i> , 2019, 160, 181-186.	3.6	7
35	Human plague system associated with rodent diversity and other environmental factors. <i>Royal Society Open Science</i> , 2019, 6, 190216.	2.4	12
36	Historical and genomic data reveal the influencing factors on global transmission velocity of plague during the Third Pandemic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11833-11838.	7.1	25

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37	Impacts of consumerâ€‘resource interaction transitions on persistence and longâ€‘term interaction outcomes of random ecological networks. <i>Oikos</i> , 2019, 128, 1147-1157.	2.7	4
38	Dietary shifts influenced by livestock grazing shape the gut microbiota composition and coâ€‘occurrence networks in a local rodent species. <i>Journal of Animal Ecology</i> , 2019, 88, 302-314.	2.8	36
39	Risk of cache pilferage determines hoarding behavior of rodents and seed fate. <i>Behavioral Ecology</i> , 2018, 29, 984-991.	2.2	22
40	Dome-shaped transition between positive and negative interactions maintains higher persistence and biomass in more complex ecological networks. <i>Ecological Modelling</i> , 2018, 370, 14-21.	2.5	5
41	Ecological succession drives the structural change of seed-rodent interaction networks in fragmented forests. <i>Forest Ecology and Management</i> , 2018, 419-420, 42-50.	3.2	28
42	Combined effects of intra- and inter-specific non-monotonic functions on the stability of a two-species system. <i>Ecological Complexity</i> , 2018, 33, 49-56.	2.9	2
43	Effect of synthetic hormones on reproduction in <i>Mastomys natalensis</i> . <i>Journal of Pest Science</i> , 2018, 91, 157-168.	3.7	25
44	Quantifying the effects of climate and anthropogenic change on regional species loss in China. <i>PLoS ONE</i> , 2018, 13, e0199735.	2.5	17
45	Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems. <i>Science</i> , 2017, 355, .	12.6	260
46	Climate warming and humans played different roles in triggering Late Quaternary extinctions in east and west Eurasia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162438.	2.6	19
47	Does scatterâ€‘hoarding of seeds benefit cache owners or pilferers?. <i>Integrative Zoology</i> , 2017, 12, 477-488.	2.6	30
48	Large manipulative experiments reveal complex effects of food supplementation on population dynamics of Brandtâ€™s voles. <i>Science China Life Sciences</i> , 2017, 60, 911-920.	4.9	12
49	Scale-dependent climatic drivers of human epidemics in ancient China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12970-12975.	7.1	28
50	Cultivated walnut trees showed earlier but not final advantage over its wild relatives in competing for seed dispersers. <i>Integrative Zoology</i> , 2017, 12, 12-25.	2.6	36
51	Contrasting patterns of shortâ€‘term indirect seedâ€‘seed interactions mediated by scatterâ€‘hoarding rodents. <i>Journal of Animal Ecology</i> , 2016, 85, 1370-1377.	2.8	26
52	Sheep grazing causes shift in sex ratio and cohort structure of Brandt's vole: Implication of their adaptation to food shortage. <i>Integrative Zoology</i> , 2016, 11, 76-84.	2.6	19
53	Species coâ€‘occurrence and phylogenetic structure of terrestrial vertebrates at regional scales. <i>Global Ecology and Biogeography</i> , 2016, 25, 455-463.	5.8	17
54	Changes in the morphology and protein expression of germ cells and Sertoli cells in plateau pikas testes during non-breeding season. <i>Scientific Reports</i> , 2016, 6, 22697.	3.3	9

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55	Laboratory domestication changed the expression patterns of oxytocin and vasopressin in brains of rats and mice. <i>Anatomical Science International</i> , 2016, 91, 358-370.	1.0	27
56	Hippocampal adult neurogenesis: Its regulation and potential role in spatial learning and memory. <i>Brain Research</i> , 2016, 1644, 127-140.	2.2	117
57	Differential foraging preferences on seed size by rodents result in higher dispersal success of medium-sized seeds. <i>Ecology</i> , 2016, 97, 3070-3078.	3.2	47
58	A landmark of <i>Integrative Zoology</i> 's development. <i>Integrative Zoology</i> , 2016, 11, 423-423.	2.6	0
59	Weak olfaction increases seed scatter-hoarding by Siberian chipmunks: implication in shaping plant-animal interactions. <i>Oikos</i> , 2016, 125, 1712-1718.	2.7	31
60	Seed trait-mediated selection by rodents affects mutualistic interactions and seedling recruitment of co-occurring tree species. <i>Oecologia</i> , 2016, 180, 475-484.	2.0	32
61	Trade-off between seed defensive traits and impacts on interaction patterns between seeds and rodents in forest ecosystems. <i>Plant Ecology</i> , 2016, 217, 253-265.	1.6	44
62	Successive sheep grazing reduces population density of Brandt's voles in steppe grassland by altering food resources: a large manipulative experiment. <i>Oecologia</i> , 2016, 180, 149-159.	2.0	24
63	Past climate change and recent anthropogenic activities affect genetic structure and population demography of the greater long-tailed hamster in northern China. <i>Integrative Zoology</i> , 2015, 10, 482-496.	2.6	16
64	Addressing China's grand challenge of achieving food security while ensuring environmental sustainability. <i>Science Advances</i> , 2015, 1, e1400039.	10.3	182
65	Ecological non-monotonicity and its effects on complexity and stability of populations, communities and ecosystems. <i>Ecological Modelling</i> , 2015, 312, 374-384.	2.5	36
66	Human impact and climate cooling caused range contraction of large mammals in China over the past two millennia. <i>Ecography</i> , 2015, 38, 74-82.	4.5	80
67	Mutualistic and predatory interactions are driven by rodent body size and seed traits in a rodent-seed system in warm-temperate forest in northern China. <i>Wildlife Research</i> , 2015, 42, 149.	1.4	26
68	The trophic responses of two different rodent-vector-plague systems to climate change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141846.	2.6	33
69	Intra- and interspecific interactions and environmental factors determine spatial-temporal species assemblages of rodents in arid grasslands. <i>Landscape Ecology</i> , 2015, 30, 1643-1655.	4.2	10
70	Seed traits and taxonomic relationships determine the occurrence of mutualisms versus seed predation in a tropical forest rodent and seed dispersal system. <i>Integrative Zoology</i> , 2014, 9, 309-319.	2.6	52
71	Functional traits determine formation of mutualism and predation interactions in seed-rodent dispersal system of a subtropical forest. <i>Acta Oecologica</i> , 2014, 55, 43-50.	1.1	43
72	Wet climate and transportation routes accelerate spread of human plague. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20133159.	2.6	53

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73	Specific non-monotonous interactions increase persistence of ecological networks. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132797.	2.6	16
74	Hoarding without reward: Rodent responses to repeated episodes of complete cache loss. Behavioural Processes, 2014, 106, 36-43.	1.1	17
75	Rodent-favored cache sites do not favor seedling establishment of shade-intolerant wild apricot (<i>Prunus armeniaca</i> Linn.) in northern China. Plant Ecology, 2013, 214, 531-543.	1.6	17
76	Agricultural irrigation mediates climatic effects and density dependence in population dynamics of Chinese striped hamster in northern China. Journal of Animal Ecology, 2013, 82, 334-344.	2.8	20
77	The combined effects of seed perishability and seed size on hoarding decisions by <i>Peromyscus</i> rock squirrels. Behavioral Ecology and Sociobiology, 2013, 67, 1067-1075.	1.4	26
78	Long-term seed survival and dispersal dynamics in a rodent-dispersed tree: testing the predator satiation hypothesis and the predator dispersal hypothesis. Journal of Ecology, 2013, 101, 1256-1264.	4.0	87
79	Sensitivity to Seed Germination Schedule by Scatter-Hoarding <i>Peromyscus</i> Rock Squirrels During Mast and Non-Mast Years. Ethology, 2013, 119, 472-479.	1.1	14
80	Variation of Genetic Diversity in a Rapidly Expanding Population of the Greater Long-Tailed Hamster (<i>Tscherskia triton</i>) as Revealed by Microsatellites. PLoS ONE, 2013, 8, e54171.	2.5	6
81	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
82	Acorn Pericarp Removal as a Cache Management Strategy of the Siberian Chipmunk, <i>Tamias sibiricus</i> . Ethology, 2012, 118, 87-94.	1.1	37
83	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
84	Effect of seed availability on hoarding behaviors of Siberian chipmunk (<i>Tamias sibiricus</i>) in semi-natural enclosures. Mammalia, 2011, 75, .	0.7	11
85	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
86	Eighteen novel microsatellite markers for the greater long-tailed hamster (<i>Tscherskia triton</i>). Conservation Genetics, 2010, 11, 1227-1230.	1.5	4
87	Effect of ENSO-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
88	<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
89	Periodic climate cooling enhanced natural disasters and wars in China during AD 10-1900. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3745-3753.	2.6	89
90	Food limitation and low-density populations of sympatric hamster species in North China. Contributions To Zoology, 2009, 78, 65-75.	0.5	7

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91	Behavioral adaptation of Pallas's squirrels to germination schedule and tannins in acorns. <i>Behavioral Ecology</i> , 2009, 20, 1050-1055.	2.2	66
92	Periodic temperature-associated drought/flood drives locust plagues in China. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 823-831.	2.6	51
93	Seed predation and dispersal of glabrous filbert (<i>Corylus Heterophylla</i>) and pilose filbert (<i>Corylus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 135-142.	1.6	46
94	Seed dispersal of Korean pine <i>Pinus koraiensis</i> labeled by two different tags in a northern temperate forest, northeast China. <i>Ecological Research</i> , 2008, 23, 379-384.	1.5	30
95	Effects of seed abundance on seed scatter-hoarding of Edward's rat (<i>Leopoldamys edwardsi</i> Muridae) at the individual level. <i>Oecologia</i> , 2008, 158, 57-63.	2.0	43
96	Integration of ecology and biology for the management of rodents: International perspectives 3. <i>Integrative Zoology</i> , 2008, 3, 1-2.	2.6	0
97	International Society of Zoological Sciences: home and hope for global zoologists. <i>Integrative Zoology</i> , 2008, 3, 67-67.	2.6	0
98	Endocarp thickness affects seed removal speed by small rodents in a warm-temperate broad-leaved deciduous forest, China. <i>Acta Oecologica</i> , 2008, 34, 285-293.	1.1	72
99	Effects of mast seeding and rodent abundance on seed predation and dispersal by rodents in <i>Prunus armeniaca</i> (Rosaceae). <i>Forest Ecology and Management</i> , 2007, 242, 511-517.	3.2	109
100	The highly polymorphic microsatellite markers for the greater long-tailed hamster (<i>Tscherskia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 1.7	1.7	3
101	The outbreak pattern of SARS cases in China as revealed by a mathematical model. <i>Ecological Modelling</i> , 2007, 204, 420-426.	2.5	24
102	Concepts, measurements and scientific problems of biocomplexity. <i>Integrative Zoology</i> , 2007, 2, 100-110.	2.6	2
103	Integration of ecology and biology for the management of rodents: International perspectives 1. <i>Integrative Zoology</i> , 2007, 2, 121-122.	2.6	0
104	Nut predation and dispersal of Harland Tanoak <i>Lithocarpus harlandii</i> by scatter-hoarding rodents. <i>Acta Oecologica</i> , 2006, 29, 205-213.	1.1	30
105	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. <i>Forest Ecology and Management</i> , 2006, 222, 46-54.	3.2	98
106	Using seed-tagging methods for assessing post-dispersal seed fate in rodent-dispersed trees. <i>Forest Ecology and Management</i> , 2006, 223, 18-23.	3.2	175
107	Remarks on behalf of the Editorial Board of <i>Integrative Zoology</i> . <i>Integrative Zoology</i> , 2006, 1, 1-1.	2.6	0
108	Human disturbance, climate and biodiversity determine biological invasion at a regional scale. <i>Integrative Zoology</i> , 2006, 1, 130-138.	2.6	11

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109	Food hoarding behaviour of large field mouse <i>Apodemus peninsulae</i> . <i>Acta Theriologica</i> , 2005, 50, 51-58.	1.1	22
110	Infection of SARS-CoV on juvenile and adult Brandt's vole <i>Microtus brandtii</i> . <i>Science Bulletin</i> , 2005, 50, 1199-1204.	1.7	3
111	The effects of seed abundance on seed predation and dispersal by rodents in <i>Castanopsis fargesii</i> (Fagaceae). <i>Plant Ecology</i> , 2005, 177, 249-257.	1.6	73
112	Effects of seed size on dispersal distance in five rodent-dispersed fagaceous species. <i>Acta Oecologica</i> , 2005, 28, 221-229.	1.1	146
113	The outbreak pattern of the SARS cases in Asia. <i>Science Bulletin</i> , 2004, 49, 1819-1823.	1.7	8
114	Influence of operational sex ratio and density on the copulatory behaviour and mating system of Brandt's vole <i>Microtus brandtii</i> . <i>Acta Theriologica</i> , 2003, 48, 335-346.	1.1	15
115	Mutualism or cooperation among competitors promotes coexistence and competitive ability. <i>Ecological Modelling</i> , 2003, 164, 271-282.	2.5	86
116	Extrinsic and intrinsic factors determine the eruptive dynamics of Brandt's voles <i>Microtus brandtii</i> in Inner Mongolia, China. <i>Oikos</i> , 2003, 100, 299-310.	2.7	94
117	Burrowing rodents as ecosystem engineers: the ecology and management of plateau zokors <i>Myospalax fontanierii</i> in alpine meadow ecosystems on the Tibetan Plateau. <i>Mammal Review</i> , 2003, 33, 284-294.	4.8	159
118	Mice, rats, and people: the bio-economics of agricultural rodent pests. <i>Frontiers in Ecology and the Environment</i> , 2003, 1, 367-375.	4.0	241
119	Mice, Rats, and People: The Bio-Economics of Agricultural Rodent Pests. <i>Frontiers in Ecology and the Environment</i> , 2003, 1, 367.	4.0	4
120	Simulation of lethal control and fertility control in a demographic model for Brandt's vole <i>Microtus brandtii</i> . <i>Journal of Applied Ecology</i> , 2002, 39, 337-348.	4.0	46
121	Relationship between El Niño /South Oscillation (ENSO) and population outbreaks of some lemmings and voles in Europe. <i>Science Bulletin</i> , 2001, 46, 1067-1073.	1.7	5