Zhibin Zhang

List of Publications by Year
in descending order

142	5,551	81743	102304
papers	citations	39 h-index	66 g-index

142	142	142	4499
all docs	docs citations	times ranked	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. Integrative Zoology, 2022, 17, 231-233.	1.3	5
2	The status of fertility control for rodentsâ€"recent achievements and future directions. Integrative Zoology, 2022, 17, 964-980.	1.3	26
3	Reproductive responses of rice field rats (Rattus argentiventer) following treatment with the contraceptive hormones, quinestrol and levonorgestrol. Integrative Zoology, 2022, 17, 1017-1027.	1.3	8
4	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.	2.5	5
5	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.	1.5	4
6	Factors influencing range contraction of a rodent herbivore in a steppe grassland over the past decades. Ecology and Evolution, 2022, 12, e8546.	0.8	10
7	Evolutionary and ecological patterns of scatterâ€•and larderâ€hoarding behaviours in rodents. Ecology Letters, 2022, 25, 1202-1214.	3.0	9
8	A rodent herbivore reduces its predation risk through ecosystem engineering. Current Biology, 2022, 32, 1869-1874.e4.	1.8	5
9	Masting benefits seedling recruitment of Armeniaca sibirica through directed dispersal by rodents. Forest Ecology and Management, 2022, 513, 120200.	1.4	1
10	Modeling analysis revealed the distinct global transmission patterns of influenza A viruses and their influencing factors. Integrative Zoology, 2021, 16, 788-797.	1.3	5
11	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.	1.3	15
12	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.	1.3	12
13	Densityâ€induced social stress alters oxytocin and vasopressin activities in the brain of a small rodent species. Integrative Zoology, 2021, 16, 149-159.	1.3	14
14	Mutualism between antagonists: its ecological and evolutionary implications. Integrative Zoology, 2021, 16, 84-96.	1.3	30
15	Climate change affected the spatio-temporal occurrence of disasters in China over the past five centuries. Royal Society Open Science, 2021, 8, 200731.	1.1	4
16	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.	0.5	6
17	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, .	3.3	8
18	The Role Transition of Dietary Species Richness in Modulating the Gut Microbial Assembly and Postweaning Performance of a Generalist Herbivore. MSystems, 2021, 6, e0097921.	1.7	6

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19	Identifying the spatiotemporal clusters of plague occurrences in China during the Third Pandemic. Integrative Zoology, 2020, 15, 69-78.	1.3	1
20	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.	3.0	32
21	High housing density increases stress hormone- or disease-associated fecal microbiota in male Brandt's voles (Lasiopodomys brandtii). Hormones and Behavior, 2020, 126, 104838.	1.0	21
22	Responses of a scatter-hoarding squirrel to conspecific pilfering: a test of the reciprocal pilferage hypothesis. Animal Behaviour, 2020, 170, 147-155.	0.8	5
23	Host-microbiota interaction helps to explain the bottom-up effects of climate change on a small rodent species. ISME Journal, 2020, 14, 1795-1808.	4.4	29
24	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.	3.3	49
25	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.	1.6	7
26	Human plague system associated with rodent diversity and other environmental factors. Royal Society Open Science, 2019, 6, 190216.	1.1	12
27	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.	3.3	25
28	Meta-community selection favours reciprocal cooperation but depresses exploitation between competitors. Ecological Complexity, 2019, 37, 55-62.	1.4	4
29	Re-caching behaviour of rodents improves seed dispersal effectiveness: Evidence from seedling establishment. Forest Ecology and Management, 2019, 444, 207-213.	1.4	8
30	Impacts of consumerâ€“resource interaction transitions on persistence and longâ€term interaction outcomes of random ecological networks. Oikos, 2019, 128, 1147-1157.	1.2	4
31	Genome-wide identification and analysis of the evolution and expression patterns of the GATA transcription factors in three species of Gossypium genus. Gene, 2019, 680, 72-83.	1.0	25
32	Risk of cache pilferage determines hoarding behavior of rodents and seed fate. Behavioral Ecology, 2018, 29, 984-991.	1.0	22
33	Dome-shaped transition between positive and negative interactions maintains higher persistence and biomass in more complex ecological networks. Ecological Modelling, 2018, 370, 14-21.	1.2	5
34	Ecological succession drives the structural change of seed-rodent interaction networks in fragmented forests. Forest Ecology and Management, 2018, 419-420, 42-50.	1.4	28
35	Combined effects of intra- and inter-specific non-monotonic functions on the stability of a two-species system. Ecological Complexity, 2018, 33, 49-56.	1.4	2
36	Effect of synthetic hormones on reproduction in Mastomys natalensis. Journal of Pest Science, 2018, 91, 157-168.	1.9	25

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37	Quantifying the effects of climate and anthropogenic change on regional species loss in China. PLoS ONE, 2018, 13, e0199735.	1.1	17
38	Scatter-hoarding rodents are better pilferers than larder-hoarders. Animal Behaviour, 2018, 141, 151-159.	0.8	23
39	Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems. Science, 2017, 355, .	6.0	260
40	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.	1.2	19
41	Does scatterâ€hoarding of seeds benefit cache owners or pilferers?. Integrative Zoology, 2017, 12, 477-488.	1.3	30
42	Large manipulative experiments reveal complex effects of food supplementation on population dynamics of Brandtâ€™s voles. Science China Life Sciences, 2017, 60, 911-920.	2.3	12
43	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.	3.3	28
44	Cultivated walnut trees showed earlier but not final advantage over its wild relatives in competing for seed dispersers. Integrative Zoology, 2017, 12, 12-25.	1.3	36
45	Contrasting patterns of shortâ€term indirect seedâ€“seed interactions mediated by scatterâ€hoarding rodents. Journal of Animal Ecology, 2016, 85, 1370-1377.	1.3	26
46	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.	1.3	19
47	Species coâ€occurrence and phylogenetic structure of terrestrial vertebrates at regional scales. Global Ecology and Biogeography, 2016, 25, 455-463.	2.7	17
48	Differential foraging preferences on seed size by rodents result in higher dispersal success of mediumâ€sized seeds. Ecology, 2016, 97, 3070-3078.	1.5	47
49	Weak olfaction increases seed scatterâ€hoarding by Siberian chipmunks: implication in shaping plantâ€“animal interactions. Oikos, 2016, 125, 1712-1718.	1.2	31
50	Seed trait-mediated selection by rodents affects mutualistic interactions and seedling recruitment of co-occurring tree species. Oecologia, 2016, 180, 475-484.	0.9	32
51	Trade-off between seed defensive traits and impacts on interaction patterns between seeds and rodents in forest ecosystems. Plant Ecology, 2016, 217, 253-265.	0.7	44
52	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.	0.9	24
53	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.	1.3	16
54	Seed size and number make contrasting predictions on seed survival and dispersal dynamics: A case study from oil tea Camellia oleifera. Forest Ecology and Management, 2015, 343, 1-8.	1.4	27

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55	Addressing Chinaâ€™s grand challenge of achieving food security while ensuring environmental sustainability. Science Advances, 2015, 1, e1400039.	4.7	182
56	Ecological non-monotonicity and its effects on complexity and stability of populations, communities and ecosystems. Ecological Modelling, 2015, 312, 374-384.	1.2	36
57	Human impact and climate cooling caused range contraction of large mammals in China over the past two millennia. Ecography, 2015, 38, 74-82.	2.1	80
58	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.	0.7	26
59	The trophic responses of two different rodentâ€“vectorâ€“plague systems to climate change. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141846.	1.2	33
60	Effects of interspecific competition on food hoarding and pilferage in two sympatric rodents. Behaviour, 2014, 151, 1579-1596.	0.4	19
61	Seed traits and taxonomic relationships determine the occurrence of mutualisms versus seed predation in a tropical forest rodent and seed dispersal system. Integrative Zoology, 2014, 9, 309-319.	1.3	52
62	Functional traits determine formation of mutualism and predation interactions in seed-rodent dispersal system of a subtropical forest. Acta Oecologica, 2014, 55, 43-50.	0.5	43
63	Wet climate and transportation routes accelerate spread of human plague. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133159.	1.2	53
64	Specific non-monotonous interactions increase persistence of ecological networks. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132797.	1.2	16
65	Rapid sequestration and recaching by a scatter-hoarding rodent (Sciurotamias davidianus). Journal of Mammalogy, 2014, 95, 480-490.	0.6	20
66	Hoarding without reward: Rodent responses to repeated episodes of complete cache loss. Behavioural Processes, 2014, 106, 36-43.	0.5	17
67	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.	0.7	17
68	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.	1.3	20
69	Biological Consequences of Global Change: past and future. Integrative Zoology, 2013, 8, 123-123.	1.3	8
70	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.	0.6	26
71	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.	1.9	87
72	Climate warming increases biodiversity of small rodents by favoring rare or less abundant species in a grassland ecosystem. Integrative Zoology, 2013, 8, 162-174.	1.3	15

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73	Linking climate change to population cycles of hares and lynx. Global Change Biology, 2013, 19, 3263-3271.	4.2	44
74	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.	0.5	14
75	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.	1.1	6
76	Subfertile effects of quinestrol and levonorgestrel in male rats. Reproduction, Fertility and Development, 2012, 24, 297.	0.1	15
77	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.	3.3	33
78	Behavioral mechanisms of male sterilization on plateau pika in the Qinghai-Tibet plateau. Behavioural Processes, 2012, 89, 278-285.	0.5	10
79	Effect of testosterone and melatonin on social dominance and agonistic behavior in male Tscheskia triton. Behavioural Processes, 2012, 89, 271-277.	0.5	11
80	Effects of quinestrol and levonorgestrel on populations of plateau pikas, Ochotona curzoniae, in the Qinghaiâ€Tibetan Plateau. Pest Management Science, 2012, 68, 592-601.	1.7	29
81	Acorn Pericarp Removal as a Cache Management Strategy of the Siberian Chipmunk, Tamias sibiricus. Ethology, 2012, 118, 87-94.	0.5	37
82	Behavioural responses to acorn germination by tree squirrels in an old forest where white oaks have long been extirpated. Animal Behaviour, 2012, 83, 945-951.	0.8	26
83	Biological consequences of global change: opportunities and challenges. Integrative Zoology, 2012, 7, 111-112.	1.3	2
84	Re-feeding evokes reproductive overcompensation of food-restricted Brandt's voles. Physiology and Behavior, 2012, 105, 653-660.	1.0	15
85	Differences in hoarding behaviors among six sympatric rodent species on seeds of oil tea (Camellia) Tj ETQq1 1 0.784314 rgBT /Overlock	0.5	28
86	Behavioural responses of sympatric rodents to complete pilferage. Animal Behaviour, 2011, 81, 831-836.	0.8	34
87	High regeneration capacity helps tropical seeds to counter rodent predation. Oecologia, 2011, 166, 997-1007.	0.9	38
88	Responses of seed-hoarding behaviour to conspecific audiences in scatter- and/or larder-hoarding rodents. Behaviour, 2011, 148, 825-842.	0.4	19
89	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.	3.3	74
90	Effect of seed availability on hoarding behaviors of Siberian chipmunk (Tamias sibiricus) in semi-natural enclosures. Mammalia, 2011, 75, .	0.3	11

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91	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.	3.3	85
92	Effect of ENSOâ€driven precipitation on population irruptions of the Yangtze vole Microtus fortis calamorum in the Dongting Lake region of China. Integrative Zoology, 2010, 5, 176-184.	1.3	8
93	Frequency-dependent selection by tree squirrels: adaptive escape of nondormant white oaks. Behavioral Ecology, 2010, 21, 169-175.	1.0	47
94	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.	1.2	89
95	Effects of burrow condition and seed handling time on hoarding strategies of Edward's long-tailed rat (Leopoldamys edwardsi). Behavioural Processes, 2010, 85, 163-166.	0.5	16
96	Agonistic encounters and brain activation in dominant and subordinate male greater long-tailed hamsters. Hormones and Behavior, 2010, 58, 478-484.	1.0	47
97	Density-dependent genetic variation in dynamic populations of the greater long-tailed hamster (Tscherskia triton). Journal of Mammalogy, 2010, 91, 200-207.	0.6	15
98	Food limitation and low-density populations of sympatric hamster species in North China. Contributions To Zoology, 2009, 78, 65-75.	0.2	7
99	Behavioral adaptation of Pallas's squirrels to germination schedule and tannins in acorns. Behavioral Ecology, 2009, 20, 1050-1055.	1.0	66
100	Periodic temperature-associated drought/flood drives locust plagues in China. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 823-831.	1.2	51
101	Hoarding decisions by Edward's long-tailed rats (Leopoldamys edwardsi) and South China field mice (Apodemus draco): The responses to seed size and germination schedule in acorns. Behavioural Processes, 2009, 82, 7-11.	0.5	50
102	Fecal hormone variation during prolonged social interaction in male Tscheskia triton. Physiology and Behavior, 2009, 97, 347-352.	1.0	14
103	Domestic goat grazing disturbance enhances tree seed removal and caching by small rodents in a warm-temperate deciduous forest in China. Wildlife Research, 2009, 36, 610.	0.7	9
104	Seed predation and dispersal of glabrous filbert (Corylus Heterophylla) and pilose filbert (Corylus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 135-142.	0.7	46
105	Seed dispersal of Korean pine Pinus koraiensis labeled by two different tags in a northern temperate forest, northeast China. Ecological Research, 2008, 23, 379-384.	0.7	30
106	Effects of seed abundance on seed scatter-hoarding of Edwardâ€™s rat (Leopoldamys edwardsi Muridae) at the individual level. Oecologia, 2008, 158, 57-63.	0.9	43
107	Testing the high-tannin hypothesis with scatter-hoarding rodents: experimental and field evidence. Animal Behaviour, 2008, 75, 1235-1241.	0.8	72
108	Differentiation in seed hoarding among three sympatric rodent species in a warm temperate forest. Integrative Zoology, 2008, 3, 134-142.	1.3	33

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109	Endocarp thickness affects seed removal speed by small rodents in a warm-temperate broad-leafed deciduous forest, China. Acta Oecologica, 2008, 34, 285-293.	0.5	72
110	Differences of dispersal fitness of large and small acorns of Liaodong oak (Quercus liaotungensis) before and after seed caching by small rodents in a warm temperate forest, China. Forest Ecology and Management, 2008, 255, 1243-1250.	1.4	76
111	Grassland ecosystems in China: review of current knowledge and research advancement. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 997-1008.	1.8	489
112	Thousand-year-long Chinese time series reveals climatic forcing of decadal locust dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16188-16193.	3.3	114
113	Acorn defenses to herbivory from insects: Implications for the joint evolution of resistance, tolerance and escape. Forest Ecology and Management, 2007, 238, 302-308.	1.4	57
114	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.	1.4	109
115	Effect of maternal food restriction during gestation on early development of F1 and F2 offspring in the rat-like hamster (Cricetulus triton). Zoology, 2007, 110, 118-126.	0.6	15
116	Stability analysis of a two-species model with transitions between population interactions. Journal of Theoretical Biology, 2007, 248, 145-153.	0.8	23
117	The outbreak pattern of SARS cases in China as revealed by a mathematical model. Ecological Modelling, 2007, 204, 420-426.	1.2	24
118	Concepts, measurements and scientific problems of biocomplexity. Integrative Zoology, 2007, 2, 100-110.	1.3	2
119	Antiâ€fertility effect of levonorgestrel and quinestrol in Brandt's voles (Lasiopodomys brandtii). Integrative Zoology, 2007, 2, 260-268.	1.3	48
120	Integration of ecology and biology for the management of rodents: International perspectives 1. Integrative Zoology, 2007, 2, 121-122.	1.3	0
121	Relationship between increase rate of human plague in China and global climate index as revealed by crossâ€spectral and crossâ€wavelet analyses. Integrative Zoology, 2007, 2, 144-153.	1.3	40
122	Integration of ecology and biology for the management of rodents: International perspectives 2. Integrative Zoology, 2007, 2, 191-192.	1.3	1
123	Nut predation andÂdispersal ofÂHarland Tanoak LithocarpusÂharlandii byÂscatter-hoarding rodents. Acta Oecologica, 2006, 29, 205-213.	0.5	30
124	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.	1.4	98
125	Using seed-tagging methods for assessing post-dispersal seed fate in rodent-dispersed trees. Forest Ecology and Management, 2006, 223, 18-23.	1.4	175
126	Food restriction affects reproduction and survival of F1 and F2 offspring of Rat-like hamster (Cricetulus triton). Physiology and Behavior, 2006, 87, 607-613.	1.0	21

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127	Food hoarding behaviour of large field mouseApodemus peninsulae. Acta Theriologica, 2005, 50, 51-58.	1.1	22
128	The effects of seed abundance on seed predation and dispersal by rodents in Castanopsis fargesii (Fagaceae). Plant Ecology, 2005, 177, 249-257.	0.7	73
129	Seed consumption and caching on seeds of three sympatric tree species by four sympatric rodent species in a subtropical forest, China. Forest Ecology and Management, 2005, 216, 331-341.	1.4	39
130	Effects of seed size on dispersal distance in five rodent-dispersed fagaceous species. Acta Oecologica, 2005, 28, 221-229.	0.5	146
131	On the economic benefit of predicting rodent outbreaks in agricultural systems. Crop Protection, 2004, 23, 305-314.	1.0	29
132	The outbreak pattern of the SARS cases in Asia. Science Bulletin, 2004, 49, 1819-1823.	1.7	8
133	Dispersal and germination of big and small nuts of Quercus serrata in a subtropical broad-leaved evergreen forest. Forest Ecology and Management, 2004, 195, 141-150.	1.4	103
134	Impacts of scatter-hoarding rodents on restoration of oil tea Camellia oleifera in a fragmented forest. Forest Ecology and Management, 2004, 196, 405-412.	1.4	41
135	Food restriction in pregnant rat-like hamsters (Cricetulus triton) affects endocrine, immune function and odor attractiveness of male offspring. Physiology and Behavior, 2004, 82, 453-458.	1.0	23
136	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
137	Mutualism or cooperation among competitors promotes coexistence and competitive ability. Ecological Modelling, 2003, 164, 271-282.	1.2	86
138	Extrinsic and intrinsic factors determine the eruptive dynamics of Brandt's voles Microtus brandti in Inner Mongolia, China. Oikos, 2003, 100, 299-310.	1.2	94
139	Mice, rats, and people: the bio-economics of agricultural rodent pests. Frontiers in Ecology and the Environment, 2003, 1, 367-375.	1.9	241
140	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.	1.9	46
141	Mathematical models of wildlife management by contraception. Ecological Modelling, 2000, 132, 105-113.	1.2	49
142	A possible relationship between outbreaks of the oriental migratory locust (Locusta migratoria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.7	33