

# Guiming Wang

## List of Publications by Year in descending order

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106  
papers

1,797  
citations

257450

24  
h-index

345221

36  
g-index

106  
all docs

106  
docs citations

106  
times ranked

2173  
citing authors

#	ARTICLE	IF	CITATIONS
1	SPATIAL AND TEMPORAL VARIABILITY MODIFY DENSITY DEPENDENCE IN POPULATIONS OF LARGE HERBIVORES. <i>Ecology</i> , 2006, 87, 95-102.	3.2	127
2	Projected ecosystem impact of the Prairie Heating and CO <sub>2</sub> Enrichment experiment. <i>New Phytologist</i> , 2007, 174, 823-834.	7.3	85
3	Machine learning for inferring animal behavior from location and movement data. <i>Ecological Informatics</i> , 2019, 49, 69-76.	5.2	84
4	Dry weather induces outbreaks of human West Nile virus infections. <i>BMC Infectious Diseases</i> , 2010, 10, 38.	2.9	73
5	Response of American kestrels and gray-tailed voles to vegetation height and supplemental perches. <i>Canadian Journal of Zoology</i> , 2001, 79, 380-385.	1.0	59
6	Density dependence in northern ungulates: interactions with predation and resources. <i>Population Ecology</i> , 2009, 51, 123-132.	1.2	57
7	Spatial synchrony propagates through a forest food web via consumer-resource interactions. <i>Ecology</i> , 2009, 90, 2974-2983.	3.2	54
8	Machine learning of large-scale spatial distributions of wild turkeys with high-dimensional environmental data. <i>Ecology and Evolution</i> , 2019, 9, 5938-5949.	1.9	44
9	Despotism and Risk of Infanticide Influence Grizzly Bear Den-Site Selection. <i>PLoS ONE</i> , 2011, 6, e24133.	2.5	43
10	Scale-dependent home range optimality for a solitary omnivore. <i>Ecology and Evolution</i> , 2018, 8, 12271-12282.	1.9	42
11	Spatial distribution drivers of Amur leopard density in northeast China. <i>Biological Conservation</i> , 2015, 191, 258-265.	4.1	37
12	The effects of supplemental perch sites on avian predation and demography of vole populations. <i>Canadian Journal of Zoology</i> , 1999, 77, 535-541.	1.0	35
13	New hope for the survival of the Amur leopard in China. <i>Scientific Reports</i> , 2015, 5, 15475.	3.3	34
14	Title is missing!. <i>Climatic Change</i> , 2002, 54, 205-223.	3.6	31
15	Relationship between species richness of small mammals and primary productivity of arid and semi-arid grasslands in north China. <i>Journal of Arid Environments</i> , 1999, 43, 467-475.	2.4	30
16	Determinants of local and migratory movements of Great Lakes double-crested cormorants. <i>Behavioral Ecology</i> , 2011, 22, 1096-1103.	2.2	30
17	On the latent state estimation of nonlinear population dynamics using Bayesian and non-Bayesian state-space models. <i>Ecological Modelling</i> , 2007, 200, 521-528.	2.5	29
18	The role of ungulates and large predators on plant communities and ecosystem processes in western national parks. , 2003, , 444-486.		28

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19	Population Ecology of Wild Mongolian Gerbils <i>Meriones Unguiculatus</i> . <i>Journal of Mammalogy</i> , 2009, 90, 832-840.	1.3	28
20	Comparative population dynamics of <i>Peromyscus leucopus</i> in North America: influences of climate, food, and density dependence. <i>Population Ecology</i> , 2009, 51, 133-142.	1.2	28
21	Effects of spatiotemporal resource heterogeneity on home range size of American beaver. <i>Journal of Zoology</i> , 2014, 293, 134-141.	1.7	28
22	Cattle dynamics in African grazing systems under variable climates. <i>Journal of Arid Environments</i> , 2007, 70, 495-513.	2.4	27
23	Land sharing and land sparing reveal social and ecological synergy in big cat conservation. <i>Biological Conservation</i> , 2017, 211, 142-149.	4.1	27
24	Relationships between climate and population dynamics of white-tailed ptarmigan <i>Lagopus leucurus</i> in Rocky Mountain National Park, Colorado, USA. <i>Climate Research</i> , 2002, 23, 81-87.	1.1	27
25	Species richness "primary productivity relationship of plants and small mammals in the Inner Mongolian steppes, China. <i>Journal of Arid Environments</i> , 2001, 49, 477-484.	2.4	26
26	Soil water condition and small mammal spatial distribution in Inner Mongolian steppes, China. <i>Journal of Arid Environments</i> , 2003, 54, 729-737.	2.4	25
27	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
28	Effects of resource dispersion and site familiarity on movements of translocated wild turkeys on fragmented landscapes. <i>Behavioural Processes</i> , 2012, 91, 119-124.	1.1	22
29	Improved nutrition cues switch from efficiency to luxury phenotypes for a long-lived ungulate. <i>Ecology and Evolution</i> , 2016, 6, 7276-7285.	1.9	22
30	Communal food caches and social groups of Brandt's voles in the typical steppes of Inner Mongolia, China. <i>Journal of Arid Environments</i> , 2007, 68, 398-407.	2.4	20
31	Carabid beetle response to prescribed fire and herbicide in intensively managed, mid-rotation pine stands in Mississippi. <i>Forest Ecology and Management</i> , 2012, 281, 41-47.	3.2	19
32	Population-level response of coyotes to a pulsed resource event. <i>Population Ecology</i> , 2014, 56, 349-358.	1.2	19
33	EFFECTS OF ADULT SEX RATIOS ON RECRUITMENT OF JUVENILE GRAY-TAILED VOLES, <i>MICROTUS CANICAUDUS</i> . <i>Journal of Mammalogy</i> , 2002, 83, 947-956.	1.3	18
34	Mongolian gerbils and Daurian pikas responded differently to changes in precipitation in the Inner Mongolian grasslands. <i>Journal of Arid Environments</i> , 2006, 66, 648-656.	2.4	18
35	Home-range sizes of social groups of Mongolian gerbils <i>Meriones unguiculatus</i> . <i>Journal of Arid Environments</i> , 2011, 75, 132-137.	2.4	18
36	White-tailed deer incidents with U.S. civil aircraft. <i>Wildlife Society Bulletin</i> , 2011, 35, 303-309.	1.6	18

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37	Effects of supplemental food on the social organization of Mongolian gerbils during the breeding season. <i>Journal of Zoology</i> , 2009, 278, 249-257.	1.7	16
38	Demographic uncertainty in ecological risk assessments. <i>Ecological Modelling</i> , 2001, 136, 95-102.	2.5	15
39	COMPOSITE FORCES SHAPE POPULATION DYNAMICS OF COPEPOD CRUSTACEANS. <i>Ecology</i> , 2007, 88, 658-670.	3.2	15
40	Multiple paternities increase genetic diversity of offspring in Brandt's voles. <i>Behavioural Processes</i> , 2010, 84, 745-749.	1.1	15
41	Microscale den-site selection of grizzly bears in southwestern Yukon. <i>Ursus</i> , 2012, 23, 226-230.	0.5	14
42	Complex and nonlinear effects of weather and density on the demography of small herbivorous mammals. <i>Basic and Applied Ecology</i> , 2015, 16, 172-179.	2.7	14
43	Spatial conservation prioritization for the Amur tiger in Northeast China. <i>Ecosphere</i> , 2021, 12, e03758.	2.2	14
44	Signatures of large-scale and local climates on the demography of white-tailed ptarmigan in Rocky Mountain National Park, Colorado, USA. <i>International Journal of Biometeorology</i> , 2002, 46, 197-201.	3.0	13
45	Comparative population dynamics of large and small mammals in the Northern Hemisphere: deterministic and stochastic forces. <i>Ecography</i> , 2013, 36, 439-446.	4.5	13
46	Advances and Environmental Conditions of Spring Migration Phenology of American White Pelicans. <i>Scientific Reports</i> , 2017, 7, 40339.	3.3	12
47	Warming-driven shifts in ecological control of fish communities in a large northern Chinese lake over 66 years. <i>Science of the Total Environment</i> , 2021, 770, 144722.	8.0	12
48	Survival and fidelity of an enclosed white-tailed deer population using capture-recapture-reporting data. <i>Population Ecology</i> , 2010, 52, 81-88.	1.2	11
49	Bat Incidents with U.S. Civil Aircraft. <i>Acta Chiropterologica</i> , 2013, 15, 185-192.	0.6	11
50	Behavioral Traits and Airport Type Affect Mammal Incidents with U.S. Civil Aircraft. <i>Environmental Management</i> , 2014, 54, 908-918.	2.7	11
51	Spatial niche partitioning of coexisting small mammals in sand dunes. <i>Italian Journal of Zoology</i> , 2016, 83, 248-254.	0.6	11
52	Restricted cross-scale habitat selection by American beavers. <i>Environmental Epigenetics</i> , 2017, 63, 703-710.	1.8	11
53	State-space models for stochastic and seasonal fluctuations of vole and shrew populations in east-central Illinois. <i>Ecological Modelling</i> , 2007, 207, 189-196.	2.5	10
54	Habitat selection by American beaver at multiple spatial scales. <i>Animal Biotelemetry</i> , 2019, 7, .	1.9	10

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55	Seasonal effects of wind conditions on migration patterns of soaring American white pelican. PLoS ONE, 2017, 12, e0186948.	2.5	10
56	Genetic Consequences of Group Living in Mongolian Gerbils. Journal of Heredity, 2011, 102, 554-561.	2.4	9
57	Home Ranges and Habitat Use of Brown Pelicans ( <i>Pelecanus occidentalis</i> ) in the Northern Gulf of Mexico. Waterbirds, 2013, 36, 494-500.	0.3	9
58	Movement characteristics of American beavers ( <i>Castor canadensis</i> ). Behaviour, 2014, 151, 1249-1265.	0.8	9
59	The cumulative effects of management on the population dynamics of the double-crested cormorant ( <i>Phalacrocorax auritus</i> ) in the Great Lakes. Ibis, 2014, 156, 141-152.	1.9	9
60	Winter and Summer Home Ranges of American White Pelicans ( <i>Pelecanus erythrorhynchos</i> ) Captured at Loafing Sites in the Southeastern United States. Waterbirds, 2016, 39, 287-294.	0.3	9
61	Landscape-Abundance Relationships of Male Eastern Wild Turkeys ( <i>Meleagris gallopavo silvestris</i> ) in Mississippi, USA. Acta Ornithologica, 2017, 52, 127-139.	0.5	9
62	Nutrition and ontogeny influence weapon development in a long-lived mammal. Canadian Journal of Zoology, 2018, 96, 955-962.	1.0	9
63	Climate affects the outbreaks of a forest defoliator indirectly through its tree hosts. Oecologia, 2022, 198, 407-418.	2.0	9
64	Spatial overlap between sympatric <i>Microtus brandti</i> (Rodentia, Microtinae) and <i>Ochotona daurica</i> (Lagomorpha, Ochotonidae) in the steppes of inner Mongolia. Mammalia, 2003, 67, .	0.7	8
65	Effects of winter food availability on the abundance of Daurian pikas ( <i>Ochotona dauurica</i> ) in Inner Mongolian grasslands. Journal of Arid Environments, 2008, 72, 1383-1387.	2.4	8
66	Signal extraction from long-term ecological data using Bayesian and non-Bayesian state-space models. Ecological Informatics, 2009, 4, 69-75.	5.2	8
67	Relationships between survival and habitat suitability of semi-aquatic mammals. Ecology and Evolution, 2020, 10, 4867-4875.	1.9	8
68	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
69	Population Dynamics and Recovery of Endangered Crested Ibis ( <i>Nipponia nippon</i> ) in Central China. Waterbirds, 2008, 31, 489-494.	0.3	7
70	Assessment of variation of nest survival for grassland birds due to method of nest discovery. Bird Study, 2015, 62, 223-231.	1.0	7
71	Birth date promotes a tortoise or hare tactic for body mass development of a long-lived male ungulate. Oecologia, 2018, 186, 117-128.	2.0	7
72	A Field Test of the Quotient Method for Predicting Risk to <i>Microtus canicaudus</i> in Grasslands. Archives of Environmental Contamination and Toxicology, 1999, 36, 207-212.	4.1	6

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73	Winter food availability limits winter survival of Mongolian gerbils ( <i>Meriones unguiculatus</i> ). <i>Acta Theriologica</i> , 2011, 56, 219-227.	1.1	6
74	Weather entrainment and multispectral diel activity rhythm of desert hamsters. <i>Behavioural Processes</i> , 2013, 99, 62-66.	1.1	6
75	Simulations of wood duck recruitment from nest boxes in Mississippi and Alabama. <i>Journal of Wildlife Management</i> , 2015, 79, 907-916.	1.8	6
76	Restricted dispersal determines fine-scale spatial genetic structure of Mongolian gerbils. <i>Environmental Epigenetics</i> , 2017, 63, 687-691.	1.8	6
77	Bayesian spatiotemporal dynamic models for regional dynamics of avian populations. <i>Ecological Informatics</i> , 2018, 45, 31-37.	5.2	6
78	Ecological plasticity of denning chronology by American black bears and brown bears. <i>Global Ecology and Conservation</i> , 2019, 20, e00750.	2.1	5
79	RAINFALL AND GUTHION 2S INTERACTIONS AFFECT GRAY-TAILED VOLE DEMOGRAPHY. , 2001, 11, 928-933.		5
80	Optimal body weight of Brandt's voles for winter survival. <i>Journal of Arid Environments</i> , 2014, 103, 31-35.	2.4	4
81	Bayesian and frequentist approaches to multinomial count models in ecology. <i>Ecological Informatics</i> , 2021, 61, 101209.	5.2	4
82	Spatiotemporal dynamics of mesocarnivore populations. <i>Wildlife Biology</i> , 2018, 2018, 1-7.	1.4	4
83	Gray-tailed voles do not move to avoid exposure to the insecticide Guthion® 2S. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1824-1828.	4.3	3
84	Fast and slow dynamics of northern small mammal populations. <i>Ecological Modelling</i> , 2012, 225, 95-102.	2.5	3
85	Sexual size dimorphism of group-living Mongolian gerbils <i>Meriones unguiculatus</i> (Muridae): Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		3
86	Response of bobwhite quail and gray-tailed voles to granular and flowable diazinon applications. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 406-411.	4.3	2
87	Sweep-net Sampling Acorns in Forested Wetlands. <i>Journal of Wildlife Management</i> , 2010, 74, 1931-1933.	1.8	2
88	Mountain Ridge and Sea: Geographic-Barrier Effects on Genetic Diversity and Differentiation of the Hong Kong Newt ( <i>Paramesotriton hongkongensis</i> ) Revealed by AFLP. <i>Annales Zoologici Fennici</i> , 2011, 48, 119-127.	0.6	2
89	Effects of weather and landscape on the equine West Nile virus infection risk in Mississippi, USA. <i>Geospatial Health</i> , 2015, 10, 357.	0.8	2
90	Adjusting for seasonal harvest bias in the lactation index for white-tailed deer management. <i>Wildlife Society Bulletin</i> , 2016, 40, 754-757.	1.6	2

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91	Bayesian regression models for ecological count data in PyMC3. <i>Ecological Informatics</i> , 2021, 63, 101301.	5.2	2
92	Brood Surveys and Hunter Observations Used to Predict Gobbling Activity of Wild Turkeys in Mississippi. <i>Journal of Fish and Wildlife Management</i> , 2014, 5, 151-156.	0.9	2
93	Individual trophic niche specialization in American beaver ( <i>Castor canadensis</i> ). <i>Food Webs</i> , 2022, 32, e00235.	1.2	2
94	Sizes and Long-Term Trends of Duck Broods in Maine, 1955â€“2007. <i>Northeastern Naturalist</i> , 2011, 18, 73-86.	0.3	1
95	Towards optimized population control efficiency in space and time: A modelling framework adapted to a colonial waterbird. <i>Ecological Modelling</i> , 2012, 235-236, 95-101.	2.5	1
96	Sensitivity analysis demonstrates limits to utility of lactation index for whiteâ€“tailed deer management. <i>Wildlife Society Bulletin</i> , 2018, 42, 444-451.	1.6	1
97	GRAY-TAILED VOLES DO NOT MOVE TO AVOID EXPOSURE TO THE INSECTICIDE GUTHIONÂ® 2S. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1824.	4.3	1
98	Connecting hunt outcomes to the demographics, behaviors, and experiences of wild turkey hunters in Mississippi. <i>Wildlife Society Bulletin</i> , 2022, 46, .	0.8	1
99	Seasonal variation and tracking of climate niche of a migratory bird. <i>Global Ecology and Conservation</i> , 2022, 37, e02155.	2.1	1
100	Large- and Small-Scale Climate Influences Spring Migration Departure Probability of American White Pelicans. <i>Diversity</i> , 2022, 14, 500.	1.7	1
101	Litter sizes of Daurian ground squirrels peak at intermediate body sizes. <i>Mammalian Biology</i> , 2016, 81, 61-65.	1.5	0
102	Protocol for Assessing the Relative Effects of Environment and Genetics on Antler and Body Growth for a Long-lived Cervid. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	0
103	Spatial transferability of expert opinion models for American beaver habitat. <i>Ecological Informatics</i> , 2021, 61, 101211.	5.2	0
104	Denning, metabolic suppression, and the realisation of ecological opportunities in Ursidae. <i>Mammal Review</i> , 2021, 51, 465-481.	4.8	0
105	Large Mammal Use of SeminatURAL Grasslands and Implications for Aviation Strike Risk. <i>Journal of Fish and Wildlife Management</i> , 2018, 9, 222-227.	0.9	0
106	Assessing longâ€“term dynamics of nonâ€“breeding Brown Pelican ( <i>Pelecanus occidentalis</i> ) populations using Christmas Bird Count data. <i>Ibis</i> , 0, , .	1.9	0