Fuwen Wei

List of Publications by Year
in descending order

138 papers	7,244 citations	50170 46 h-index	62479 80 g-index
138 all docs	138 docs citations	138 times ranked	6664 citing authors

#	Article	IF	Citations
1	A single nucleotide mutation in the dual-oxidase 2 (DUOX2) gene causes some of the panda's unique metabolic phenotypes. National Science Review, 2022, 9, nwab125.	4.6	8
2	Red panda genomics and the evidence for two species. , 2022, , 413-420.		0
3	Red pandas in the wild in China. , 2022, , 393-411.		0
4	Integrated index-based assessment reveals long-term conservation progress in implementation of Convention on Biological Diversity. Science Advances, 2022, 8, eabj8093.	4.7	4
5	Seasonal shift of the gut microbiome synchronizes host peripheral circadian rhythm for physiological adaptation to a low-fat diet in the giant panda. Cell Reports, 2022, 38, 110203.	2.9	49
6	Evolutionary Conservation Genomics Reveals Recent Speciation and Local Adaptation in Threatened Takins. Molecular Biology and Evolution, 2022, 39, .	3.5	7
7	Diet drives convergent evolution of gut microbiomes in bamboo-eating species. Science China Life Sciences, 2021, 64, 88-95.	2.3	43
8	Unity of Nature and Man: a new vision and conceptual framework for the Post-2020 Global Biodiversity Framework. National Science Review, 2021, 8, nwaa265.	4.6	15
9	Ecological civilization: China's effort to build a shared future for all life on Earth. National Science Review, 2021, 8, nwaa279.	4.6	27
10	Genomic Signatures of Coevolution between Nonmodel Mammals and Parasitic Roundworms. Molecular Biology and Evolution, 2021, 38, 531-544.	3.5	10
11	Tsen-Hwang Shaw: Founder of Vertebrate Zoology in China. Protein and Cell, 2021, 12, 1-3.	4.8	2
12	Integrating climate, biodiversity, and sustainable land-use strategies: innovations from China. National Science Review, 2021, 8, nwaa139.	4.6	27
13	A whole-genome association approach for large-scale interspecies traits. Science China Life Sciences, 2021, 64, 1372-1374.	2.3	1
14	Symbiotic bacteria mediate volatile chemical signal synthesis in a large solitary mammal species. ISME Journal, 2021, 15, 2070-2080.	4.4	17
15	How two sesquiterpenes drive horse manure rolling behavior in wild giant pandas. Chemoecology, 2021, 31, 221.	0.6	0
16	Wildlife conservation and management in China: achievements, challenges and perspectives. National Science Review, 2021, 8, nwab042.	4.6	26
17	Exploring marine endosymbiosis systems with omics techniques. Science China Life Sciences, 2021, 64, 1013-1016.	2.3	4
18	Ecological civilization: a revived perspective on the relationship between humanity and nature. National Science Review, 2021, 8, nwab112.	4.6	12

#	Article	IF	Citations
19	On the origin of SARS-CoV-2â€”The blind watchmaker argument. Science China Life Sciences, 2021, 64, 1560-1563.	2.3	18
20	Geographic distributions shape the functional traits in a large mammalian family. Ecology and Evolution, 2021, 11, 13175-13185.	0.8	3
21	Multi-omics reveals the positive leverage of plant secondary metabolites on the gut microbiota in a non-model mammal. Microbiome, 2021, 9, 192.	4.9	19
22	Insights into the roles of fungi and protist in the giant panda gut microbiome and antibiotic resistome. Environment International, 2021, 155, 106703.	4.8	26
23	Spatial patterns and conservation of genetic and phylogenetic diversity of wildlife in China. Science Advances, 2021, 7, .	4.7	47
24	Toward post-2020 global biodiversity conservation: Footprint and direction in China. Innovation(China), 2021, 2, 100175.	5.2	11
25	The giant panda is cryptic. Scientific Reports, 2021, 11, 21287.	1.6	14
26	Molecular mechanisms and topological consequences of drastic chromosomal rearrangements of muntjac deer. Nature Communications, 2021, 12, 6858.	5.8	23
27	Ailuropoda melanoleuca (Giant Panda). Trends in Genetics, 2020, 36, 68-69.	2.9	19
28	The endangered red panda in Himalayas: Potential distribution and ecological habitat associates. Global Ecology and Conservation, 2020, 21, e00890.	1.0	16
29	Seasonal dynamics of parasitism and stress physiology in wild giant pandas. , 2020, 8, coaa085.		2
30	Climate change and landscape-use patterns influence recent past distribution of giant pandas. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200358.	1.2	12
31	Giant Panda (Ailuropoda melanoleuca). , 2020, , 63-77.		1
32	TAS2R20 variants confer dietary adaptation to highâ€quercitrin bamboo leaves in Qinling giant pandas. Ecology and Evolution, 2020, 10, 5913-5921.	0.8	6
33	Assessing the Effectiveness of Chinaâ€™s Panda Protection System. Current Biology, 2020, 30, 1280-1286.e2.	1.8	20
34	Ailurus fulgens (Himalayan Red Panda) and Ailurus styani (Chinese Red Panda). Trends in Genetics, 2020, 36, 624-625.	2.9	9
35	A new era for evolutionary developmental biology in non-model organisms. Science China Life Sciences, 2020, 63, 1251-1253.	2.3	11
36	Dietary flavonoids and the altitudinal preference of wild giant pandas in Foping National Nature Reserve, China. Global Ecology and Conservation, 2020, 22, e00981.	1.0	7

#	Article	IF	Citations
37	Genomic evidence for two phylogenetic species and long-term population bottlenecks in red pandas. Science Advances, 2020, 6, eaax5751.	4.7	86
38	Why wild giant pandas frequently roll in horse manure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32493-32498.	3.3	11
39	Synteny search identifies carnivore Y chromosome for evolution of male specific genes. Integrative Zoology, 2019, 14, 224-234.	1.3	4
40	Plan S and publishing: reply to LehtomÃki etÂal. 2019. Conservation Biology, 2019, 33, 1203-1204.	2.4	0
41	Diet Evolution and Habitat Contraction of Giant Pandas via Stable Isotope Analysis. Current Biology, 2019, 29, 664-669.e2.	1.8	71
42	The role of den quality in giant panda conservation. Biological Conservation, 2019, 231, 189-196.	1.9	51
43	Seasonal and reproductive variation in chemical constituents of scent signals in wild giant pandas. Science China Life Sciences, 2019, 62, 648-660.	2.3	55
44	Structural variation provides novel insights into dog domestication. National Science Review, 2019, 6, 123-123.	4.6	1
45	Giant Pandas Are Macronutritional Carnivores. Current Biology, 2019, 29, 1677-1682.e2.	1.8	58
46	Seasonal competition between sympatric species for a key resource: Implications for conservation management. Biological Conservation, 2019, 234, 1-6.	1.9	11
47	Chromosome-level genome assembly for giant panda provides novel insights into Carnivora chromosome evolution. Genome Biology, 2019, 20, 267.	3.8	31
48	Defining the balance point between conservation and development. Conservation Biology, 2019, 33, 231-238.	2.4	12
49	Conservation metagenomics: a new branch of conservation biology. Science China Life Sciences, 2019, 62, 168-178.	2.3	61
50	Conservation evolutionary biology: A new branch of conservation biology. Scientia Sinica Vitae, 2019, 49, 498-508.	0.1	5
51	Implications of flood disturbance for conservation and management of giant panda habitat in human-modified landscapes. Biological Conservation, 2019, 232, 35-42.	1.9	3
52	The endangered red panda (Ailurus fulgens): Ecology and conservation approaches across the entire range. Biological Conservation, 2018, 220, 112-121.	1.9	30
53	Patterns and effects of GC3 heterogeneity and parsimony informative sites on the phylogenetic tree of genes. Gene, 2018, 655, 56-60.	1.0	3
54	Adaptive evolution to a high purine and fat diet of carnivorans revealed by gut microbiomes and host genomes. Environmental Microbiology, 2018, 20, 1711-1722.	1.8	61

#	Article	IF	Citations
55	Panda Downlisted but not Out of the Woods. Conservation Letters, 2018, 11, e12355.	2.8	98
56	Lineage-specific evolution of bitter taste receptor genes in the giant and red pandas implies dietary adaptation. Integrative Zoology, 2018, 13, 152-159.	1.3	10
57	Reintroduction of the giant panda into the wild: A good start suggests a bright future. Biological Conservation, 2018, 217, 181-186.	1.9	76
58	Conservation genetics and genomics of threatened vertebrates in China. Journal of Genetics and Genomics, 2018, 45, 593-601.	1.7	9
59	Predicting the potential distribution of the endangered red panda across its entire range using MaxEnt modeling. Ecology and Evolution, 2018, 8, 10542-10554.	0.8	92
60	The Value of Ecosystem Services from Giant Panda Reserves. Current Biology, 2018, 28, 2174-2180.e7.	1.8	112
61	No evidence for <scp>MHC</scp>â€based mate choice in wild giant pandas. Ecology and Evolution, 2018, 8, 8642-8651.	0.8	8
62	Walking in a heterogeneous landscape: Dispersal, gene flow and conservation implications for the giant panda in the Qinling Mountains. Evolutionary Applications, 2018, 11, 1859-1872.	1.5	22
63	Mitochondrial genome of a 22,000-year-old giant panda from southern China reveals a new panda lineage. Current Biology, 2018, 28, R693-R694.	1.8	19
64	Comparative genomics reveals convergent evolution between the bamboo-eating giant and red pandas. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1081-1086.	3.3	196
65	A natural communication system on genome evolution. Science China Life Sciences, 2017, 60, 432-435.	2.3	3
66	Seasonal variation in nutrient utilization shapes gut microbiome structure and function in wild giant pandas. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170955.	1.2	99
67	Inbreeding and inbreeding avoidance in wild giant pandas. Molecular Ecology, 2017, 26, 5793-5806.	2.0	57
68	Distinctive dietâ€tissue isotopic discrimination factors derived from the exclusive bambooâ€eating giant panda. Integrative Zoology, 2016, 11, 447-456.	1.3	11
69	Improvement of genome assembly completeness and identification of novel full-length protein-coding genes by RNA-seq in the giant panda genome. Scientific Reports, 2016, 5, 18019.	1.6	12
70	Noninvasive genetics provides insights into the population size and genetic diversity of an Amur tiger population in China. Integrative Zoology, 2016, 11, 16-24.	1.3	10
71	Progress in the ecology and conservation of giant pandas. Conservation Biology, 2015, 29, 1497-1507.	2.4	153
72	The giant panda gut microbiome. Trends in Microbiology, 2015, 23, 450-452.	3.5	78

#	Article	IF	Citations
73	Exceptionally low daily energy expenditure in the bamboo-eating giant panda. Science, 2015, 349, 171-174.	6.0	190
74	Hunting bamboo: Foraging patch selection and utilization by giant pandas and implications for conservation. Biological Conservation, 2015, 186, 260-267.	1.9	64
75	Giant Pandas Are Not an Evolutionary cul-de-sac: Evidence from Multidisciplinary Research. Molecular Biology and Evolution, 2015, 32, 4-12.	3.5	149
76	Obligate herbivory in an ancestrally carnivorous lineage: the giant panda and bamboo from the perspective of nutritional geometry. Functional Ecology, 2015, 29, 26-34.	1.7	160
77	Ecological scale and seasonal heterogeneity in the spatial behaviors of giant pandas. Integrative Zoology, 2014, 9, 46-60.	1.3	109
78	Genome-scale analysis of demographic history and adaptive selection. Protein and Cell, 2014, 5, 99-112.	4.8	10
79	Large-Scale Genetic Survey Provides Insights into the Captive Management and Reintroduction of Giant Pandas. Molecular Biology and Evolution, 2014, 31, 2663-2671.	3.5	31
80	Movement-Based Estimation and Visualization of Space Use in 3D for Wildlife Ecology and Conservation. PLoS ONE, 2014, 9, e101205.	1.1	48
81	Effect of Chinaâ€™s rapid development on its iconic giant panda. Science Bulletin, 2013, 58, 2134-2139.	1.7	18
82	Whole-genome sequencing of giant pandas provides insights into demographic history and local adaptation. Nature Genetics, 2013, 45, 67-71.	9.4	303
83	Genetic consequences of historical anthropogenic and ecological events on giant pandas. Ecology, 2013, 94, 2346-2357.	1.5	64
84	Measures of giant panda habitat selection across multiple spatial scales for species conservation. Journal of Wildlife Management, 2012, 76, 1092-1100.	0.7	9
85	Black and white and read all over: the past, present and future of giant panda genetics. Molecular Ecology, 2012, 21, 5660-5674.	2.0	143
86	Reproductive competition and fecal testosterone in wild male giant pandas (Ailuropoda melanoleuca). Behavioral Ecology and Sociobiology, 2012, 66, 721-730.	0.6	70
87	Giant panda scent-marking strategies in the wild: role of season, sex and marking surface. Animal Behaviour, 2012, 84, 39-44.	0.8	100
88	Quantifying landscape linkages among giant panda subpopulations in regional scale conservation. Integrative Zoology, 2012, 7, 165-174.	1.3	23
89	Evidence of cellulose metabolism by the giant panda gut microbiome. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17714-17719.	3.3	455
90	Significant genetic boundaries and spatial dynamics of giant pandas occupying fragmented habitat across southwest China. Molecular Ecology, 2011, 20, 1122-1132.	2.0	59

#	Article	IF	Citations
91	Genetic structuring and recent demographic history of red pandas (Ailurus fulgens) inferred from microsatellite and mitochondrial DNA. Molecular Ecology, 2011, 20, 2662-2675.	2.0	41
92	Molecular evidence for Pleistocene refugia at the eastern edge of the Tibetan Plateau. Molecular Ecology, 2011, 20, 3014-3026.	2.0	57
93	Different habitat preferences of male and female giant pandas. Journal of Zoology, 2011, 285, 205-214.	0.8	17
94	Ranging behavior of the FranÃ§ois' langur (Trachypithecus francoisi) in limestone habitats of Nonggang, China. Integrative Zoology, 2011, 6, 157-164.	1.3	6
95	Can science save the giant panda (Ailuropoda melanoleuca)? Unifying science and policy in an adaptive management paradigm. Integrative Zoology, 2011, 6, 290-296.	1.3	26
96	Genotyping faeces of red pandas (Ailurus fulgens): implications for population estimation. European Journal of Wildlife Research, 2011, 57, 1231-1235.	0.7	5
97	THE PARASITES OF GIANT PANDAS: INDIVIDUAL-BASED MEASUREMENT IN WILD ANIMALS. Journal of Wildlife Diseases, 2011, 47, 164-171.	0.3	60
98	Old-growth forest is what giant pandas really need. Biology Letters, 2011, 7, 403-406.	1.0	112
99	A new method for quantifying genotyping errors for noninvasive genetic studies. Conservation Genetics, 2010, 11, 1567-1571.	0.8	18
100	Spatial genetic structure and dispersal of giant pandas on a mountain-range scale. Conservation Genetics, 2010, 11, 2145-2155.	0.8	72
101	Genetic evidence of recent population contraction in the southernmost population of giant pandas. Genetica, 2010, 138, 1297-1306.	0.5	61
102	Landscape features influence gene flow as measured by cost-distance and genetic analyses: a case study for giant pandas in the Daxiangling and Xiaoxiangling Mountains. BMC Genetics, 2010, 11, 72.	2.7	27
103	Conservation Implications of Drastic Reductions in the Smallest and Most Isolated Populations of Giant Pandas. Conservation Biology, 2010, 24, 1299-1306.	2.4	49
104	The sequence and de novo assembly of the giant panda genome. Nature, 2010, 463, 311-317.	13.7	1,058
105	First evidence of prey capture and meat eating by wild Yunnan snub-nosed monkeys Rhinopithecus bieti in Yunnan, China. Environmental Epigenetics, 2010, 56, 227-231.	0.9	7
106	Giant panda conservation science: how far we have come. Biology Letters, 2010, 6, 143-145.	1.0	47
107	Home range and seasonality of Yunnan snubâ€nosed monkeys. Integrative Zoology, 2009, 4, 162-171.	1.3	21
108	Wildlife research in the developing world. Integrative Zoology, 2009, 4, 159-160.	1.3	1

#	Article	IF	Citations
109	Factors Influencing Interannual and Intersite Variability in the Diet of Trachypithecus francoisi. International Journal of Primatology, 2009, 30, 583-599.	0.9	28
110	Ecological niche modeling of the sympatric giant and red pandas on a mountain-range scale. Biodiversity and Conservation, 2009, 18, 2127-2141.	1.2	32
111	Food habits and space-use of red pandas Ailurus fulgens in the Fengtongzhai Nature Reserve, China: food effects and behavioural responses. Acta Theriologica, 2009, 54, 225-234.	1.1	28
112	Measuring Daily Ranging Distances of Rhinopithecus bieti via a Global Positioning System Collar at Jinsichang, China: A Methodological Consideration. International Journal of Primatology, 2008, 29, 783-794.	0.9	75
113	Reproductive Characters and Mating Behaviour of Wild Nomascus hainanus. International Journal of Primatology, 2008, 29, 1037-1046.	0.9	35
114	Ranging of Rhinopithecus bieti in the Samage Forest, China. I. Characteristics of Range Use. International Journal of Primatology, 2008, 29, 1121-1145.	0.9	43
115	Complex population genetic and demographic history of the Salangid, Neosalanx taihuensis, based on cytochrome b sequences. BMC Evolutionary Biology, 2008, 8, 201.	3.2	33
116	Genetic Viability and Population History of the Giant Panda, Putting an End to the â€œEvolutionary Dead Endâ€. Molecular Biology and Evolution, 2007, 24, 1801-1810.	3.5	122
117	Factors Predicting Den Use by Maternal Giant Pandas. Journal of Wildlife Management, 2007, 71, 2694-2698.	0.7	64
118	Seasonal Variation in the Activity Patterns and Time Budgets of Trachypithecus francoisi in the Nonggang Nature Reserve, China. International Journal of Primatology, 2007, 28, 657-671.	0.9	63
119	Diet and Food Choice of Trachypithecus francoisi in the Nonggang Nature Reserve, China. International Journal of Primatology, 2006, 27, 1441-1460.	0.9	52
120	Genetic diversity among Chinese sika deer (Cervus nippon) populations and relationships between Chinese and Japanese sika deer. Science Bulletin, 2006, 51, 433-440.	1.7	21
121	Molecular censusing doubles giant panda population estimate in a key nature reserve. Current Biology, 2006, 16, R451-R452.	1.8	183
122	Winter Microhabitat Separation between Giant and Red Pandas in Bashania faberi Bamboo Forest in Fengtongzhai Nature Reserve. Journal of Wildlife Management, 2006, 70, 231-235.	0.7	39
123	Mitochondrial phylogeography and subspecific variation in the red panda (Ailurus fulgens): implications for conservation. Molecular Phylogenetics and Evolution, 2005, 36, 78-89.	1.2	48
124	Isolation and characterization of microsatellite loci for the red panda, Ailurus fulgens. Molecular Ecology Notes, 2005, 5, 27-29.	1.7	15
125	Hainan Black-crested Gibbon Is Headed For Extinction. International Journal of Primatology, 2005, 26, 453-465.	0.9	55
126	Influences of mating groups on the reproductive success of the Southern Sichuan Red Panda (Ailurus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.5	13

#	Article	IF	Citations
127	Distribution and conservation status of the endemic Chinese mountain cat Felis bieti. Oryx, 2004, 38, .	0.5	9
128	Phylogeny of Snub-Nosed Monkeys Inferred from Mitochondrial DNA, Cytochrome B, and 12S rRNA Sequences. International Journal of Primatology, 2004, 25, 861-873.	0.9	23
129	Introduction: Keynote Addresses from the XIXth Congress of the International Primatological Society, Beijing, China, August 4â€“9, 2002. International Journal of Primatology, 2004, 25, 1073-1076.	0.9	0
130	Microhabitat separation during winter among sympatric giant pandas, red pandas, and tufted deer: the effects of diet, body size, and energy metabolism. Canadian Journal of Zoology, 2004, 82, 1451-1458.	0.4	42
131	Sleeping Cave Selection, Activity Pattern and Time Budget of White-Headed Langurs. International Journal of Primatology, 2003, 24, 813-824.	0.9	61
132	Mitochondrial control region variability of baiji and the Yangtze finless porpoises, two sympatric small cetaceans in the Yangtze river. Acta Theriologica, 2003, 48, 469-483.	1.1	16
133	Sex-related gene and sex identification of Crested IbisNipponia nippon (Ciconiiformes:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.7	10
134	Seasonal energy utilization in bamboo by the red panda (Ailurus fulgens). Zoo Biology, 2000, 19, 27-33.	0.5	24
135	HABITAT USE AND SEPARATION BETWEEN THE GIANT PANDA AND THE RED PANDA. Journal of Mammalogy, 2000, 81, 448-455.	0.6	86
136	Use of the nutrients in bamboo by the red panda (Ailurus fulgens). Journal of Zoology, 1999, 248, 535-541.	0.8	60
137	Current distribution, status and conservation of wild red pandas Ailurus fulgens in China. Biological Conservation, 1999, 89, 285-291.	1.9	96
138	Mandible of the giant panda (Ailuropoda melanoleuca) compared with other Chinese carnivores: functional adaptation. Biological Journal of the Linnean Society, 0, 92, 449-456.	0.7	43