

Shaopeng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,692
citations

136950

32
h-index

149698

56
g-index

83
all docs

83
docs citations

83
times ranked

4005
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiversity alleviates the decrease of grassland multifunctionality under grazing disturbance: A global meta-analysis. <i>Global Ecology and Biogeography</i> , 2022, 31, 155-167.	5.8	32
2	The hidden role of multi-trophic interactions in driving diversity-productivity relationships. <i>Ecology Letters</i> , 2022, 25, 405-415.	6.4	16
3	Biodiversity promotes ecosystem functioning despite environmental change. <i>Ecology Letters</i> , 2022, 25, 555-569.	6.4	85
4	Nutrients and herbivores impact grassland stability across spatial scales through different pathways. <i>Global Change Biology</i> , 2022, 28, 2678-2688.	9.5	18
5	The long and the short of it: Mechanisms of synchronous and compensatory dynamics across temporal scales. <i>Ecology</i> , 2022, 103, e3650.	3.2	18
6	Yield and quality properties of silage maize and their influencing factors in China. <i>Science China Life Sciences</i> , 2022, 65, 1655-1666.	4.9	18
7	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality. <i>Science China Life Sciences</i> , 2022, 65, 861-895.	4.9	163
8	Intra- and interspecific variability of specific leaf area mitigate the reduction of community stability in response to warming and nitrogen addition. <i>Oikos</i> , 2022, 2022, .	2.7	5
9	High dimensionality of stoichiometric niches in soil fauna. <i>Ecology</i> , 2022, 103, e3741.	3.2	8
10	Multispecies forest plantations outyield monocultures across a broad range of conditions. <i>Science</i> , 2022, 376, 865-868.	12.6	107
11	Enhanced habitat loss of the Himalayan endemic flora driven by warming-forced upslope tree expansion. <i>Nature Ecology and Evolution</i> , 2022, 6, 890-899.	7.8	72
12	Long-term empirical evidence, early warning signals and multiple drivers of regime shifts in a lake ecosystem. <i>Journal of Ecology</i> , 2021, 109, 3182-3194.	4.0	31
13	Dispersal network heterogeneity promotes species coexistence in hierarchical competitive communities. <i>Ecology Letters</i> , 2021, 24, 50-59.	6.4	10
14	Global patterns and climatic drivers of above- and belowground net primary productivity in grasslands. <i>Science China Life Sciences</i> , 2021, 64, 739-751.	4.9	23
15	Scaling up biodiversity-ecosystem functioning relationships: the role of environmental heterogeneity in space and time. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202779.	2.6	24
16	Alien woody plant invasions in natural forests across China. <i>Journal of Plant Ecology</i> , 2021, 14, 749-756.	2.3	3
17	Asymmetric foraging lowers the trophic level and omnivory in natural food webs. <i>Journal of Animal Ecology</i> , 2021, 90, 1444-1454.	2.8	3
18	Conceptual and theoretical dimensions of biodiversity research in China: examples from plants. <i>National Science Review</i> , 2021, 8, nwab060.	9.5	3

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19	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. <i>Ecology</i> , 2021, 102, e03332.	3.2	74
20	Consistently positive effect of species diversity on ecosystem, but not population, temporal stability. <i>Ecology Letters</i> , 2021, 24, 2256-2266.	6.4	56
21	Reduced resilience of terrestrial ecosystems locally is not reflected on a global scale. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	25
22	General statistical scaling laws for stability in ecological systems. <i>Ecology Letters</i> , 2021, 24, 1474-1486.	6.4	32
23	How complementarity and selection affect the relationship between ecosystem functioning and stability. <i>Ecology</i> , 2021, 102, e03347.	3.2	38
24	Biodiversity as insurance: from concept to measurement and application. <i>Biological Reviews</i> , 2021, 96, 2333-2354.	10.4	101
25	Grazing-induced biodiversity loss impairs grassland ecosystem stability at multiple scales. <i>Ecology Letters</i> , 2021, 24, 2054-2064.	6.4	46
26	Mechanistic links between biodiversity effects on ecosystem functioning and stability in a multi-site grassland experiment. <i>Journal of Ecology</i> , 2021, 109, 3370-3378.	4.0	23
27	The effects of dispersal on spatial synchrony in metapopulations differ by timescale. <i>Oikos</i> , 2021, 130, 1762-1772.	2.7	10
28	Composition of "fast" "slow" traits drives avian community stability over North America. <i>Functional Ecology</i> , 2021, 35, 2831-2840.	3.6	7
29	Metapopulation capacity determines food chain length in fragmented landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
30	The significance of tree-tree interactions for forest ecosystem functioning. <i>Basic and Applied Ecology</i> , 2021, 55, 33-52.	2.7	38
31	The dual nature of metacommunity variability. <i>Oikos</i> , 2021, 130, 2078-2092.	2.7	15
32	Field-based Estimation of Net Primary Productivity and Its Above- and Belowground Partitioning in Global Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	3.0	11
33	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
34	A new variance ratio metric to detect the timescale of compensatory dynamics. <i>Ecosphere</i> , 2020, 11, e03114.	2.2	14
35	Critical transition of soil bacterial diversity and composition triggered by nitrogen enrichment. <i>Ecology</i> , 2020, 101, e03053.	3.2	98
36	Above- and below-ground biodiversity jointly regulate temperate forest multifunctionality along a local-scale environmental gradient. <i>Journal of Ecology</i> , 2020, 108, 2012-2024.	4.0	74

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37	Scalingâ€up biodiversityâ€ecosystem functioning research. <i>Ecology Letters</i> , 2020, 23, 757-776.	6.4	270
38	Uncovering the complete biodiversity structure in spatial networks: the example of riverine systems. <i>Oikos</i> , 2020, 129, 607-618.	2.7	73
39	Species Insurance Trumps Spatial Insurance in Stabilizing Biomass of a Marine Macroalgal Metacommunity. <i>Bulletin of the Ecological Society of America</i> , 2019, 100, e01557.	0.2	0
40	Temporal stability of aboveground biomass is governed by species asynchrony in temperate forests. <i>Ecological Indicators</i> , 2019, 107, 105661.	6.3	23
41	Metapopulations revisited: the areaâ€dependence of dispersal matters. <i>Ecology</i> , 2019, 100, e02792.	3.2	16
42	Predator traits determine food-web architecture across ecosystems. <i>Nature Ecology and Evolution</i> , 2019, 3, 919-927.	7.8	157
43	Species insurance trumps spatial insurance in stabilizing biomass of a marine macroalgal metacommunity. <i>Ecology</i> , 2019, 100, e02719.	3.2	38
44	Horizontal and vertical diversity jointly shape food web stability against small and large perturbations. <i>Ecology Letters</i> , 2019, 22, 1152-1162.	6.4	41
45	Stability and synchrony across ecological hierarchies in heterogeneous metacommunities: linking theory to data. <i>Ecography</i> , 2019, 42, 1200-1211.	4.5	89
46	Multiple abiotic and biotic pathways shape biomass demographic processes in temperate forests. <i>Ecology</i> , 2019, 100, e02650.	3.2	66
47	Intraguild predation enhances biodiversity and functioning in complex food webs. <i>Ecology</i> , 2019, 100, e02616.	3.2	26
48	<i>fluxweb</i> : An R package to easily estimate energy fluxes in food webs. <i>Methods in Ecology and Evolution</i> , 2019, 10, 270-279.	5.2	49
49	Abiotic and biotic determinants of coarse woody productivity in temperate mixed forests. <i>Science of the Total Environment</i> , 2018, 630, 422-431.	8.0	49
50	Biodiversity and ecosystem functioning in food webs: the vertical diversity hypothesis. <i>Ecology Letters</i> , 2018, 21, 9-20.	6.4	88
51	Aboveground carbon storage is driven by functional trait composition and stand structural attributes rather than biodiversity in temperate mixed forests recovering from disturbances. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	72
52	Simplicity from complex interactions. <i>Nature Ecology and Evolution</i> , 2018, 2, 1201-1202.	7.8	4
53	An invariability-area relationship sheds new light on the spatial scaling of ecological stability. <i>Nature Communications</i> , 2017, 8, 15211.	12.8	61
54	Biodiversity and ecosystem stability across scales in metacommunities. <i>Ecology Letters</i> , 2016, 19, 510-518.	6.4	213

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55	When will China achieve its carbon emission peak?. National Science Review, 2016, 3, 8-12.	9.5	27
56	Spatial scale and pattern dependences of aboveground biomass estimation from satellite images: a case study of the Sierra National Forest, California. Landscape Ecology, 2016, 31, 1711-1723.	4.2	3
57	Multiple metrics of diversity have different effects on temperate forest functioning over succession. Oecologia, 2016, 182, 1175-1185.	2.0	48
58	The stage-classified matrix models project a significant increase in biomass carbon stocks in China's forests between 2005 and 2050. Scientific Reports, 2015, 5, 11203.	3.3	34
59	Spatial and spatiotemporal variation in metapopulation structure affects population dynamics in a passively dispersing arthropod. Journal of Animal Ecology, 2015, 84, 1565-1574.	2.8	30
60	Density-dependent speciation alters the structure and dynamics of neutral communities. Journal of Theoretical Biology, 2015, 372, 128-134.	1.7	1
61	Dispersal and metapopulation stability. PeerJ, 2015, 3, e1295.	2.0	41
62	Ecosystem stability in space: $\hat{\mu}$, $\hat{\sigma}^2$ and $\hat{\mu}^3$ variability. Ecology Letters, 2014, 17, 891-901.	6.4	200
63	Why abundant tropical tree species are phylogenetically old. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16039-16043.	7.1	15
64	Speciation Rates Decline through Time in Individual-Based Models of Speciation and Extinction. American Naturalist, 2013, 182, E83-E93.	2.1	16
65	Widespread decreases in topsoil inorganic carbon stocks across China's grasslands during 1980s-2000s. Global Change Biology, 2012, 18, 3672-3680.	9.5	65
66	Significant soil acidification across northern China's grasslands during 1980s-2000s. Global Change Biology, 2012, 18, 2292-2300.	9.5	200
67	Global warming, human-induced carbon emissions, and their uncertainties. Science China Earth Sciences, 2011, 54, 1458-1468.	5.2	48
68	Regional differences in the timing of recent air warming during the past four decades in China. Science Bulletin, 2010, 55, 1968-1973.	1.7	53
69	Soil carbon stock and its changes in northern China's grasslands from 1980s to 2000s. Global Change Biology, 2010, 16, 3036-3047.	9.5	169
70	Scenario analysis on the global carbon emissions reduction goal proposed in the declaration of the 2009 G8 Summit. Science in China Series D: Earth Sciences, 2009, 52, 1694-1702.	0.9	19