

# Shaopeng Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

3,692  
citations

136940

32  
h-index

149686

56  
g-index

83  
all docs

83  
docs citations

83  
times ranked

4005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalingâ€up biodiversityâ€ecosystem functioning research. <i>Ecology Letters</i> , 2020, 23, 757-776.	6.4	270
2	Biodiversity and ecosystem stability across scales in metacommunities. <i>Ecology Letters</i> , 2016, 19, 510-518.	6.4	213
3	Significant soil acidification across northern China's grasslands during 1980sâ€2000s. <i>Global Change Biology</i> , 2012, 18, 2292-2300.	9.5	200
4	Ecosystem stability in space: $\hat{1}$ , $\hat{1}^2$ and $\hat{1}^3$ variability. <i>Ecology Letters</i> , 2014, 17, 891-901.	6.4	200
5	Soil carbon stock and its changes in northern China's grasslands from 1980s to 2000s. <i>Global Change Biology</i> , 2010, 16, 3036-3047.	9.5	169
6	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
7	Predator traits determine food-web architecture across ecosystems. <i>Nature Ecology and Evolution</i> , 2019, 3, 919-927.	7.8	157
8	Multispecies forest plantations outyield monocultures across a broad range of conditions. <i>Science</i> , 2022, 376, 865-868.	12.6	107
9	Biodiversity as insurance: from concept to measurement and application. <i>Biological Reviews</i> , 2021, 96, 2333-2354.	10.4	101
10	Critical transition of soil bacterial diversity and composition triggered by nitrogen enrichment. <i>Ecology</i> , 2020, 101, e03053.	3.2	98
11	Stability and synchrony across ecological hierarchies in heterogeneous metacommunities: linking theory to data. <i>Ecography</i> , 2019, 42, 1200-1211.	4.5	89
12	Biodiversity and ecosystem functioning in food webs: the vertical diversity hypothesis. <i>Ecology Letters</i> , 2018, 21, 9-20.	6.4	88
13	Biodiversity promotes ecosystem functioning despite environmental change. <i>Ecology Letters</i> , 2022, 25, 555-569.	6.4	85
14	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
15	Aboveâ€and belowâ€ground biodiversity jointly regulate temperate forest multifunctionality along a localâ€scale environmental gradient. <i>Journal of Ecology</i> , 2020, 108, 2012-2024.	4.0	74
16	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. <i>Ecology</i> , 2021, 102, e03332.	3.2	74
17	Uncovering the complete biodiversity structure in spatial networks: the example of riverine systems. <i>Oikos</i> , 2020, 129, 607-618.	2.7	73
18	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

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19	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
20	Multiple abiotic and biotic pathways shape biomass demographic processes in temperate forests. <i>Ecology</i> , 2019, 100, e02650.	3.2	66
21	Widespread decreases in topsoil inorganic carbon stocks across China's grasslands during 1980s–2000s. <i>Global Change Biology</i> , 2012, 18, 3672-3680.	9.5	65
22	An invariability-area relationship sheds new light on the spatial scaling of ecological stability. <i>Nature Communications</i> , 2017, 8, 15211.	12.8	61
23	Consistently positive effect of species diversity on ecosystem, but not population, temporal stability. <i>Ecology Letters</i> , 2021, 24, 2256-2266.	6.4	56
24	Regional differences in the timing of recent air warming during the past four decades in China. <i>Science Bulletin</i> , 2010, 55, 1968-1973.	1.7	53
25	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
26	<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
27	Global warming, human-induced carbon emissions, and their uncertainties. <i>Science China Earth Sciences</i> , 2011, 54, 1458-1468.	5.2	48
28	Multiple metrics of diversity have different effects on temperate forest functioning over succession. <i>Oecologia</i> , 2016, 182, 1175-1185.	2.0	48
29	Grazing-induced biodiversity loss impairs grassland ecosystem stability at multiple scales. <i>Ecology Letters</i> , 2021, 24, 2054-2064.	6.4	46
30	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
31	Dispersal and metapopulation stability. <i>PeerJ</i> , 2015, 3, e1295.	2.0	41
32	Species insurance trumps spatial insurance in stabilizing biomass of a marine macroalgal metacommunity. <i>Ecology</i> , 2019, 100, e02719.	3.2	38
33	How complementarity and selection affect the relationship between ecosystem functioning and stability. <i>Ecology</i> , 2021, 102, e03347.	3.2	38
34	The significance of tree-tree interactions for forest ecosystem functioning. <i>Basic and Applied Ecology</i> , 2021, 55, 33-52.	2.7	38
35	The stage-classified matrix models project a significant increase in biomass carbon stocks in China's forests between 2005 and 2050. <i>Scientific Reports</i> , 2015, 5, 11203.	3.3	34
36	General statistical scaling laws for stability in ecological systems. <i>Ecology Letters</i> , 2021, 24, 1474-1486.	6.4	32

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37	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
38	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
39	Spatial and spatiotemporal variation in metapopulation structure affects population dynamics in a passively dispersing arthropod. <i>Journal of Animal Ecology</i> , 2015, 84, 1565-1574.	2.8	30
40	When will China achieve its carbon emission peak?. <i>National Science Review</i> , 2016, 3, 8-12.	9.5	27
41	Intraguild predation enhances biodiversity and functioning in complex food webs. <i>Ecology</i> , 2019, 100, e02616.	3.2	26
42	Reduced resilience of terrestrial ecosystems locally is not reflected on a global scale. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	25
43	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
44	Temporal stability of aboveground biomass is governed by species asynchrony in temperate forests. <i>Ecological Indicators</i> , 2019, 107, 105661.	6.3	23
45	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
46	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
47	Scenario analysis on the global carbon emissions reduction goal proposed in the declaration of the 2009 G8 Summit. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1694-1702.	0.9	19
48	Nutrients and herbivores impact grassland stability across spatial scales through different pathways. <i>Global Change Biology</i> , 2022, 28, 2678-2688.	9.5	18
49	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
50	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
51	Speciation Rates Decline through Time in Individual-Based Models of Speciation and Extinction. <i>American Naturalist</i> , 2013, 182, E83-E93.	2.1	16
52	Metapopulations revisited: the area-dependence of dispersal matters. <i>Ecology</i> , 2019, 100, e02792.	3.2	16
53	The hidden role of multi-trophic interactions in driving diversity-productivity relationships. <i>Ecology Letters</i> , 2022, 25, 405-415.	6.4	16
54	Why abundant tropical tree species are phylogenetically old. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16039-16043.	7.1	15

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55	The dual nature of metacommunity variability. <i>Oikos</i> , 2021, 130, 2078-2092.	2.7	15
56	A new variance ratio metric to detect the timescale of compensatory dynamics. <i>Ecosphere</i> , 2020, 11, e03114.	2.2	14
57	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
58	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
59	Dispersal network heterogeneity promotes species coexistence in hierarchical competitive communities. <i>Ecology Letters</i> , 2021, 24, 50-59.	6.4	10
60	The effects of dispersal on spatial synchrony in metapopulations differ by timescale. <i>Oikos</i> , 2021, 130, 1762-1772.	2.7	10
61	High dimensionality of stoichiometric niches in soil fauna. <i>Ecology</i> , 2022, 103, e3741.	3.2	8
62	Composition of "fast" and "slow" traits drives avian community stability over North America. <i>Functional Ecology</i> , 2021, 35, 2831-2840.	3.6	7
63	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
64	Simplicity from complex interactions. <i>Nature Ecology and Evolution</i> , 2018, 2, 1201-1202.	7.8	4
65	Spatial scale and pattern dependences of aboveground biomass estimation from satellite images: a case study of the Sierra National Forest, California. <i>Landscape Ecology</i> , 2016, 31, 1711-1723.	4.2	3
66	Alien woody plant invasions in natural forests across China. <i>Journal of Plant Ecology</i> , 2021, 14, 749-756.	2.3	3
67	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
68	Conceptual and theoretical dimensions of biodiversity research in China: examples from plants. <i>National Science Review</i> , 2021, 8, nwab060.	9.5	3
69	Density-dependent speciation alters the structure and dynamics of neutral communities. <i>Journal of Theoretical Biology</i> , 2015, 372, 128-134.	1.7	1
70	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