

Shuli Niu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3541812/publications.pdf>

Version: 2024-02-01

202
papers

13,345
citations

22153

59
h-index

28297

105
g-index

216
all docs

216
docs citations

216
times ranked

11849
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016, 540, 104-108.	27.8	879
2	A global analysis of soil acidification caused by nitrogen addition. <i>Environmental Research Letters</i> , 2015, 10, 024019.	5.2	674
3	Global patterns of the dynamics of soil carbon and nitrogen stocks following afforestation: a meta-analysis. <i>New Phytologist</i> , 2012, 195, 172-181.	7.3	460
4	Water-mediated responses of ecosystem carbon fluxes to climatic change in a temperate steppe. <i>New Phytologist</i> , 2008, 177, 209-219.	7.3	392
5	Aggravated phosphorus limitation on biomass production under increasing nitrogen loading: a meta-analysis. <i>Global Change Biology</i> , 2016, 22, 934-943.	9.5	359
6	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019, 3, 772-779.	7.8	316
7	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. <i>Nature Ecology and Evolution</i> , 2019, 3, 1309-1320.	7.8	304
8	Water-use efficiency in response to climate change: from leaf to ecosystem in a temperate steppe. <i>Global Change Biology</i> , 2011, 17, 1073-1082.	9.5	271
9	A framework for benchmarking land models. <i>Biogeosciences</i> , 2012, 9, 3857-3874.	3.3	267
10	Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2788-2793.	7.1	265
11	Microbes drive global soil nitrogen mineralization and availability. <i>Global Change Biology</i> , 2019, 25, 1078-1088.	9.5	248
12	Response of ecosystem carbon exchange to warming and nitrogen addition during two hydrologically contrasting growing seasons in a temperate steppe. <i>Global Change Biology</i> , 2009, 15, 1544-1556.	9.5	228
13	Photosynthetic overcompensation under nocturnal warming enhances grassland carbon sequestration. <i>Ecology</i> , 2009, 90, 2700-2710.	3.2	213
14	Global patterns and substrate-based mechanisms of the terrestrial nitrogen cycle. <i>Ecology Letters</i> , 2016, 19, 697-709.	6.4	192
15	Nitrogen effects on net ecosystem carbon exchange in a temperate steppe. <i>Global Change Biology</i> , 2010, 16, 144-155.	9.5	183
16	Increased temperature and precipitation interact to affect root production, mortality, and turnover in a temperate steppe: implications for ecosystem C cycling. <i>Global Change Biology</i> , 2010, 16, 1306-1316.	9.5	179
17	Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. <i>Global Change Biology</i> , 2011, 17, 843-854.	9.5	165
18	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

#	ARTICLE	IF	CITATIONS
19	Plant growth and mortality under climatic extremes: An overview. <i>Environmental and Experimental Botany</i> , 2014, 98, 13-19.	4.2	157
20	A synthesis of the effect of grazing exclusion on carbon dynamics in grasslands in China. <i>Global Change Biology</i> , 2016, 22, 1385-1393.	9.5	157
21	Costimulation of soil glycosidase activity and soil respiration by nitrogen addition. <i>Global Change Biology</i> , 2017, 23, 1328-1337.	9.5	154
22	A global synthesis of the rate and temperature sensitivity of soil nitrogen mineralization: latitudinal patterns and mechanisms. <i>Global Change Biology</i> , 2017, 23, 455-464.	9.5	151
23	Global patterns and controlling factors of soil nitrification rate. <i>Global Change Biology</i> , 2020, 26, 4147-4157.	9.5	149
24	Net primary productivity and rain-use efficiency as affected by warming, altered precipitation, and clipping in a mixed-grass prairie. <i>Global Change Biology</i> , 2013, 19, 2753-2764.	9.5	148
25	Ecosystem Traits Linking Functional Traits to Macroecology. <i>Trends in Ecology and Evolution</i> , 2019, 34, 200-210.	8.7	140
26	Differential responses of carbon-degrading enzyme activities to warming: Implications for soil respiration. <i>Global Change Biology</i> , 2018, 24, 4816-4826.	9.5	131
27	Non-Additive Effects of Water and Nitrogen Addition on Ecosystem Carbon Exchange in a Temperate Steppe. <i>Ecosystems</i> , 2009, 12, 915-926.	3.4	125
28	Water scaling of ecosystem carbon cycle feedback to climate warming. <i>Science Advances</i> , 2019, 5, eaav1131.	10.3	118
29	Global soil acidification impacts on belowground processes. <i>Environmental Research Letters</i> , 2019, 14, 074003.	5.2	118
30	Differential responses of ecosystem respiration components to experimental warming in a meadow grassland on the Tibetan Plateau. <i>Agricultural and Forest Meteorology</i> , 2016, 220, 21-29.	4.8	117
31	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012, 194, 775-783.	7.3	111
32	Global changes alter plant multi-element stoichiometric coupling. <i>New Phytologist</i> , 2019, 221, 807-817.	7.3	110
33	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. <i>Trends in Ecology and Evolution</i> , 2020, 35, 908-918.	8.7	107
34	Soil organic matter availability and climate drive latitudinal patterns in bacterial diversity from tropical to cold temperate forests. <i>Functional Ecology</i> , 2018, 32, 61-70.	3.6	106
35	Climatic warming changes plant photosynthesis and its temperature dependence in a temperate steppe of northern China. <i>Environmental and Experimental Botany</i> , 2008, 63, 91-101.	4.2	105
36	Regional variation in the temperature sensitivity of soil organic matter decomposition in China's forests and grasslands. <i>Global Change Biology</i> , 2017, 23, 3393-3402.	9.5	101

#	ARTICLE	IF	CITATIONS
37	Global soil-derived ammonia emissions from agricultural nitrogen fertilizer application: A refinement based on regional and crop-specific emission factors. <i>Global Change Biology</i> , 2021, 27, 855-867.	9.5	96
38	Post-anthesis changes in photosynthetic traits of maize hybrids released in different years. <i>Field Crops Research</i> , 2005, 93, 108-115.	5.1	94
39	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. <i>Biogeosciences</i> , 2017, 14, 145-161.	3.3	91
40	Global evidence on nitrogen saturation of terrestrial ecosystem net primary productivity. <i>Environmental Research Letters</i> , 2016, 11, 024012.	5.2	88
41	Carbon storage in China's terrestrial ecosystems: A synthesis. <i>Scientific Reports</i> , 2018, 8, 2806.	3.3	86
42	Climatic role of terrestrial ecosystem under elevated CO_2 : a bottom-up greenhouse gases budget. <i>Ecology Letters</i> , 2018, 21, 1108-1118.	6.4	81
43	Interannual variability in responses of belowground net primary productivity (NPP) and NPP partitioning to long-term warming and clipping in a tallgrass prairie. <i>Global Change Biology</i> , 2012, 18, 1648-1656.	9.5	79
44	Global meta-analysis on the responses of soil extracellular enzyme activities to warming. <i>Science of the Total Environment</i> , 2020, 705, 135992.	8.0	79
45	FLUXNET-CH<sub>4</sub&: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021, 13, 3607-3689.	9.9	79
46	Nonlinear responses of ecosystem carbon fluxes and water-use efficiency to nitrogen addition in Inner Mongolia grassland. <i>Functional Ecology</i> , 2016, 30, 490-499.	3.6	75
47	Limits to growth of forest biomass carbon sink under climate change. <i>Nature Communications</i> , 2018, 9, 2709.	12.8	74
48	Ecosystem Carbon Fluxes in Response to Warming and Clipping in a Tallgrass Prairie. <i>Ecosystems</i> , 2013, 16, 948-961.	3.4	73
49	Nonlinear responses of land ecosystems to variation in precipitation. <i>New Phytologist</i> , 2017, 214, 5-7.	7.3	71
50	Soil acid cations induced reduction in soil respiration under nitrogen enrichment and soil acidification. <i>Science of the Total Environment</i> , 2018, 615, 1535-1546.	8.0	70
51	Light and Heavy Fractions of Soil Organic Matter in Response to Climate Warming and Increased Precipitation in a Temperate Steppe. <i>PLoS ONE</i> , 2012, 7, e33217.	2.5	70
52	Interannual variability of ecosystem carbon exchange: From observation to prediction. <i>Global Ecology and Biogeography</i> , 2017, 26, 1225-1237.	5.8	68
53	Soil and vegetation carbon turnover times from tropical to boreal forests. <i>Functional Ecology</i> , 2018, 32, 71-82.	3.6	68
54	The effect of warming on grassland evapotranspiration partitioning using laser-based isotope monitoring techniques. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 111, 28-38.	3.9	67

#	ARTICLE	IF	CITATIONS
55	Gene-informed decomposition model predicts lower soil carbon loss due to persistent microbial adaptation to warming. <i>Nature Communications</i> , 2020, 11, 4897.	12.8	67
56	The role of data assimilation in predictive ecology. <i>Ecosphere</i> , 2014, 5, 1-16.	2.2	65
57	Effects of warming and increased precipitation on net ecosystem productivity: A long-term manipulative experiment in a semiarid grassland. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 359-366.	4.8	65
58	Climate controls over the net carbon uptake period and amplitude of net ecosystem production in temperate and boreal ecosystems. <i>Agricultural and Forest Meteorology</i> , 2017, 243, 9-18.	4.8	64
59	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1639-1655.	4.9	63
60	Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes. <i>Global Change Biology</i> , 2011, 17, 3102-3114.	9.5	62
61	Precipitation regulates plant gas exchange and its long-term response to climate change in a temperate grassland. <i>Journal of Plant Ecology</i> , 2016, 9, 531-541.	2.3	62
62	Maximum carbon uptake rate dominates the interannual variability of global net ecosystem exchange. <i>Global Change Biology</i> , 2019, 25, 3381-3394.	9.5	62
63	Fine-root functional trait responses to experimental warming: a global meta-analysis. <i>New Phytologist</i> , 2021, 230, 1856-1867.	7.3	59
64	Nitrogen regulation of the climate-carbon feedback: evidence from a long-term global change experiment. <i>Ecology</i> , 2010, 91, 3261-3273.	3.2	58
65	Heavy grazing reduces grassland soil greenhouse gas fluxes: A global meta-analysis. <i>Science of the Total Environment</i> , 2019, 654, 1218-1224.	8.0	57
66	Covariation between gross primary production and ecosystem respiration across space and the underlying mechanisms: A global synthesis. <i>Agricultural and Forest Meteorology</i> , 2015, 203, 180-190.	4.8	56
67	Experimental warming and clipping altered litter carbon and nitrogen dynamics in a tallgrass prairie. <i>Agriculture, Ecosystems and Environment</i> , 2010, 138, 206-213.	5.3	55
68	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. <i>Ecosystems</i> , 2017, 20, 515-526.	3.4	54
69	Nitrogen addition reduces soil respiration but increases the relative contribution of heterotrophic component in an alpine meadow. <i>Functional Ecology</i> , 2019, 33, 2239-2253.	3.6	54
70	Plant functional groups regulate soil respiration responses to nitrogen addition and mowing over a decade. <i>Functional Ecology</i> , 2018, 32, 1117-1127.	3.6	52
71	Size-dependent nutrient limitation of tree growth from subtropical to cold temperate forests. <i>Functional Ecology</i> , 2018, 32, 95-105.	3.6	52
72	The Global-DEP conceptual framework - research on dryland ecosystems to promote sustainability. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 17-28.	6.3	52

#	ARTICLE	IF	CITATIONS
73	Variations and controlling factors of soil denitrification rate. <i>Global Change Biology</i> , 2022, 28, 2133-2145.	9.5	52
74	Diversity of plant and soil microbes mediates the response of ecosystem multifunctionality to grazing disturbance. <i>Science of the Total Environment</i> , 2021, 776, 145730.	8.0	51
75	Light-intensity grazing improves alpine meadow productivity and adaption to climate change on the Tibetan Plateau. <i>Scientific Reports</i> , 2015, 5, 15949.	3.3	50
76	Environmental variables better explain changes in potential nitrification and denitrification activities than microbial properties in fertilized forest soils. <i>Science of the Total Environment</i> , 2019, 647, 653-662.	8.0	50
77	Vital roles of soil microbes in driving terrestrial nitrogen immobilization. <i>Global Change Biology</i> , 2021, 27, 1848-1858.	9.5	50
78	Effects of Grazing Regimes on Plant Traits and Soil Nutrients in an Alpine Steppe, Northern Tibetan Plateau. <i>PLoS ONE</i> , 2014, 9, e108821.	2.5	49
79	Soil carbon fractions in grasslands respond differently to various levels of nitrogen enrichments. <i>Plant and Soil</i> , 2014, 384, 401-412.	3.7	48
80	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. <i>Agricultural and Forest Meteorology</i> , 2015, 205, 11-22.	4.8	47
81	Vegetation type controls root turnover in global grasslands. <i>Global Ecology and Biogeography</i> , 2019, 28, 442-455.	5.8	46
82	When does extreme drought elicit extreme ecological responses?. <i>Journal of Ecology</i> , 2019, 107, 2553-2563.	4.0	45
83	Diversity-decomposition relationships in forests worldwide. <i>ELife</i> , 2020, 9, .	6.0	45
84	Transpiration Dominates Ecosystem Water Use Efficiency in Response to Warming in an Alpine Meadow. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 453-462.	3.0	44
85	Contrasting responses of phosphatase kinetic parameters to nitrogen and phosphorus additions in forest soils. <i>Functional Ecology</i> , 2018, 32, 106-116.	3.6	44
86	Nitrogen deposition differentially affects soil gross nitrogen transformations in organic and mineral horizons. <i>Earth-Science Reviews</i> , 2020, 201, 103033.	9.1	44
87	Soil enzymes in response to climate warming: Mechanisms and feedbacks. <i>Functional Ecology</i> , 2022, 36, 1378-1395.	3.6	44
88	Recovery time and state change of terrestrial carbon cycle after disturbance. <i>Environmental Research Letters</i> , 2017, 12, 104004.	5.2	43
89	Differential responses of ecosystem carbon flux components to experimental precipitation gradient in an alpine meadow. <i>Functional Ecology</i> , 2019, 33, 889-900.	3.6	43
90	Photosynthetic responses of C3 and C4 species to seasonal water variability and competition. <i>Journal of Experimental Botany</i> , 2005, 56, 2867-2876.	4.8	41

#	ARTICLE	IF	CITATIONS
91	Unchanged carbon balance driven by equivalent responses of production and respiration to climate change in a mixed-grass prairie. <i>Global Change Biology</i> , 2016, 22, 1857-1866.	9.5	41
92	Plant Nitrogen Dynamics and Nitrogen-use Strategies under Altered Nitrogen Seasonality and Competition. <i>Annals of Botany</i> , 2007, 100, 821-830.	2.9	39
93	Different growth responses of C3 and C4 grasses to seasonal water and nitrogen regimes and competition in a pot experiment. <i>Journal of Experimental Botany</i> , 2008, 59, 1431-1439.	4.8	38
94	Soil gross N ammonification and nitrification from tropical to temperate forests in eastern China. <i>Functional Ecology</i> , 2018, 32, 83-94.	3.6	38
95	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. <i>Global Biogeochemical Cycles</i> , 2019, 33, 668-689.	4.9	38
96	Long-term experimental warming decreased labile soil organic carbon in a tallgrass prairie. <i>Plant and Soil</i> , 2012, 361, 307-315.	3.7	36
97	Shifting Impacts of Climate Change. <i>Advances in Ecological Research</i> , 2016, 55, 437-473.	2.7	36
98	Photosynthesis, transpiration and water use efficiency of four plant species with grazing intensities in Hunshandak Sandland, China. <i>Journal of Arid Environments</i> , 2007, 70, 304-315.	2.4	35
99	What have we learned from global change manipulative experiments in China? A meta-analysis. <i>Scientific Reports</i> , 2015, 5, 12344.	3.3	35
100	Global variations and controlling factors of soil nitrogen turnover rate. <i>Earth-Science Reviews</i> , 2020, 207, 103250.	9.1	35
101	Long term trend and interannual variability of land carbon uptake—the attribution and processes. <i>Environmental Research Letters</i> , 2017, 12, 014018.	5.2	34
102	Research challenges and opportunities for using big data in global change biology. <i>Global Change Biology</i> , 2020, 26, 6040-6061.	9.5	33
103	Common Species Stability and Species Asynchrony Rather than Richness Determine Ecosystem Stability Under Nitrogen Enrichment. <i>Ecosystems</i> , 2021, 24, 686-698.	3.4	32
104	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
105	Divergent responses of primary production to increasing precipitation variability in global drylands. <i>Global Change Biology</i> , 2021, 27, 5225-5237.	9.5	31
106	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011, 8, 1453-1463.	3.3	30
107	Net primary productivity and its partitioning in response to precipitation gradient in an alpine meadow. <i>Scientific Reports</i> , 2017, 7, 15193.	3.3	29
108	Initial shifts in nitrogen impact on ecosystem carbon fluxes in an alpine meadow: patterns and causes. <i>Biogeosciences</i> , 2017, 14, 3947-3956.	3.3	29

#	ARTICLE	IF	CITATIONS
109	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 292-307.	4.8	29
110	Different responses of soil organic carbon fractions to additions of nitrogen. <i>European Journal of Soil Science</i> , 2018, 69, 1098-1104.	3.9	29
111	Toward a sustainable grazing management based on biodiversity and ecosystem multifunctionality in drylands. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 36-43.	6.3	29
112	Diurnal variation of gas exchange, chlorophyll fluorescence, and xanthophyll cycle components of maize hybrids released in different years. <i>Photosynthetica</i> , 2006, 44, 26-31.	1.7	28
113	Cropland abandonment enhances soil inorganic nitrogen retention and carbon stock in China: A meta-analysis. <i>Land Degradation and Development</i> , 2018, 29, 3898-3906.	3.9	28
114	Different strategies for regulating free-living N ₂ fixation in nutrient-amended subtropical and temperate forest soils. <i>Applied Soil Ecology</i> , 2019, 136, 21-29.	4.3	27
115	Global Soil Gross Nitrogen Transformation Under Increasing Nitrogen Deposition. <i>Global Biogeochemical Cycles</i> , 2021, 35, .	4.9	25
116	Gas Exchange, Photochemical Efficiency, and Leaf Water Potential in Three Salix Species. <i>Photosynthetica</i> , 2003, 41, 393-398.	1.7	24
117	Diurnal Gas Exchange and Superior Resources Use Efficiency of Typical C ₄ Species in Hunshandak Sandland, China. <i>Photosynthetica</i> , 2003, 41, 221-226.	1.7	22
118	Relationships Between Leaf Carbon and Macronutrients Across Woody Species and Forest Ecosystems Highlight How Carbon Is Allocated to Leaf Structural Function. <i>Frontiers in Plant Science</i> , 2021, 12, 674932.	3.6	22
119	An integrated belowground trait-based understanding of nitrogen-driven plant diversity loss. <i>Global Change Biology</i> , 2022, 28, 3651-3664.	9.5	22
120	Past climate conditions predict the influence of nitrogen enrichment on the temperature sensitivity of soil respiration. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	22
121	Direct and indirect effects of climatic variations on the interannual variability in net ecosystem exchange across terrestrial ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30575.	1.6	21
122	Responses of soil enzymatic activities to transgenic <i>Bacillus thuringiensis</i> (Bt) crops - A global meta-analysis. <i>Science of the Total Environment</i> , 2019, 651, 1830-1838.	8.0	21
123	The stoichiometry of soil microbial biomass determines metabolic quotient of nitrogen mineralization. <i>Environmental Research Letters</i> , 2020, 15, 034005.	5.2	21
124	Discrepant responses between evapotranspiration- and transpiration-based ecosystem water use efficiency to interannual precipitation fluctuations. <i>Agricultural and Forest Meteorology</i> , 2021, 303, 108385.	4.8	21
125	Increased soil microbial AOB amoA and narG abundances sustain long-term positive responses of nitrification and denitrification to N deposition. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108539.	8.8	21
126	Precipitation manipulation and terrestrial carbon cycling: The roles of treatment magnitude, experimental duration and local climate. <i>Global Ecology and Biogeography</i> , 2021, 30, 1909-1921.	5.8	20

#	ARTICLE	IF	CITATIONS
127	Leaf osmotic potentials of 104 plant species in relation to habitats and plant functional types in Hunshandak Sandland, Inner Mongolia, China. <i>Trees - Structure and Function</i> , 2003, 17, 554-560.	1.9	19
128	Ecophysiological acclimation to different soil moistures in plants from a semi-arid sandland. <i>Journal of Arid Environments</i> , 2005, 63, 353-365.	2.4	19
129	Divergent responses of ecosystem respiration components to livestock exclusion on the Qinghai Tibetan Plateau. <i>Land Degradation and Development</i> , 2018, 29, 1726-1737.	3.9	19
130	Effects of warming and clipping on CH ₄ and N ₂ O fluxes in an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108278.	4.8	19
131	Forest soil acidification consistently reduces litter decomposition irrespective of nutrient availability and litter type. <i>Functional Ecology</i> , 2021, 35, 2753-2762.	3.6	19
132	Microaggregates regulated by edaphic properties determine the soil carbon stock in Tibetan alpine grasslands. <i>Catena</i> , 2021, 206, 105570.	5.0	19
133	Variance and main drivers of field nitrous oxide emissions: A global synthesis. <i>Journal of Cleaner Production</i> , 2022, 353, 131686.	9.3	19
134	Light Competition and Biodiversity Loss Cause Saturation Response of Aboveground Net Primary Productivity to Nitrogen Enrichment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005556.	3.0	18
135	Increased CO ₂ emissions surpass reductions of non-CO ₂ emissions more under higher experimental warming in an alpine meadow. <i>Science of the Total Environment</i> , 2021, 769, 144559.	8.0	18
136	Effects of interspecific competition and nitrogen seasonality on the photosynthetic characteristics of C3 and C4 grasses. <i>Environmental and Experimental Botany</i> , 2006, 57, 270-277.	4.2	17
137	Functional traits along a transect. <i>Functional Ecology</i> , 2018, 32, 4-9.	3.6	17
138	A global synthesis reveals increases in soil greenhouse gas emissions under forest thinning. <i>Science of the Total Environment</i> , 2022, 804, 150225.	8.0	17
139	Differential mechanisms underlying responses of soil bacterial and fungal communities to nitrogen and phosphorus inputs in a subtropical forest. <i>PeerJ</i> , 2019, 7, e7631.	2.0	17
140	Comparison of Photosynthetic Traits Between Two Typical Shrubs: Legume and Non-Legume in Hunshandak Sandland. <i>Photosynthetica</i> , 2003, 41, 111-116.	1.7	16
141	Gas Exchange and Water Use Efficiency of Three Native Tree Species in Hunshandak Sandland of China. <i>Photosynthetica</i> , 2003, 41, 227-232.	1.7	16
142	Traits of Chlorophyll Fluorescence in 99 Plant Species from the Sparse-Elm Grassland in Hunshandak Sandland. <i>Photosynthetica</i> , 2004, 42, 243-249.	1.7	16
143	Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. <i>Journal of Plant Ecology</i> , 2014, 7, 419-428.	2.3	16
144	Soil and climate determine differential responses of soil respiration to nitrogen and acid deposition along a forest transect. <i>European Journal of Soil Biology</i> , 2019, 93, 103097.	3.2	16

#	ARTICLE	IF	CITATIONS
145	High-level rather than low-level warming destabilizes plant community biomass production. <i>Journal of Ecology</i> , 2021, 109, 1607-1617.	4.0	16
146	Carbon management practices regulate soil bacterial communities in response to nitrogen addition in a pine forest. <i>Plant and Soil</i> , 2020, 452, 137-151.	3.7	16
147	Diel and Seasonal Dynamics of Ecosystem-scale Methane Flux and Their Determinants in an Alpine Meadow. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1731-1745.	3.0	15
148	Shifting biomass allocation determines community water use efficiency under climate warming. <i>Environmental Research Letters</i> , 2020, 15, 094041.	5.2	15
149	Moving toward a new era of ecosystem science. <i>Geography and Sustainability</i> , 2021, 2, 151-162.	4.3	15
150	Heavy thinning reduces soil organic carbon: Evidence from a 9-year thinning experiment in a pine plantation. <i>Catena</i> , 2022, 211, 106013.	5.0	15
151	Species-specific Response of Photosynthesis to Burning and Nitrogen Fertilization. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 565-574.	8.5	14
152	Crowther et al. reply. <i>Nature</i> , 2018, 554, E7-E8.	27.8	14
153	Integrative ecology in the era of big data—From observation to prediction. <i>Science China Earth Sciences</i> , 2020, 63, 1429-1442.	5.2	14
154	Tree mortality in a warming world: causes, patterns, and implications. <i>Environmental Research Letters</i> , 2022, 17, 030201.	5.2	14
155	Divergent biomass partitioning to aboveground and belowground across forests in China. <i>Journal of Plant Ecology</i> , 2018, 11, 484-492.	2.3	13
156	Plants with lengthened phenophases increase their dominance under warming in an alpine plant community. <i>Science of the Total Environment</i> , 2020, 728, 138891.	8.0	13
157	Different responses of soil respiration and its components to nitrogen and phosphorus addition in a subtropical secondary forest. <i>Forest Ecosystems</i> , 2021, 8, .	3.1	13
158	Gas Exchange and Chlorophyll Fluorescence Response to Simulated Rainfall in <i>Hedysarum fruticosum</i> var. <i>mongolicum</i> . <i>Photosynthetica</i> , 2004, 42, 1-6.	1.7	12
159	Control of sandstorms in Inner Mongolia, China. <i>Environmental Conservation</i> , 2004, 31, 269-273.	1.3	12
160	A sand-fixing pioneer C3 species in sandland displays characteristics of C4 metabolism. <i>Environmental and Experimental Botany</i> , 2006, 57, 123-130.	4.2	12
161	Ecosystem Carbon Use Efficiency Is Insensitive to Nitrogen Addition in an Alpine Meadow. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2388-2398.	3.0	12
162	Effects of Mowing on Methane Uptake in a Semiarid Grassland in Northern China. <i>PLoS ONE</i> , 2012, 7, e35952.	2.5	12

#	ARTICLE	IF	CITATIONS
163	Experimental warming shifts coupling of carbon and nitrogen cycles in an alpine meadow. <i>Journal of Plant Ecology</i> , 2021, 14, 541-554.	2.3	11
164	Increased annual methane uptake driven by warmer winters in an alpine meadow. <i>Global Change Biology</i> , 2022, 28, 3246-3259.	9.5	11
165	Ecosystem restoration and belowground multifunctionality: A network view. <i>Ecological Applications</i> , 2022, 32, e2575.	3.8	11
166	Potentials for Combating Desertification in Hunshandak Sandland Through Nature Reserve. <i>Environmental Management</i> , 2005, 35, 453-460.	2.7	10
167	Elevated atmospheric carbon dioxide concentration stimulates soil microbial activity and impacts water-extractable organic carbon in an agricultural soil. <i>Biogeochemistry</i> , 2015, 122, 253-267.	3.5	10
168	Different Responses and Links of N:P Ratio Among Ecosystem Components Under Nutrient Addition in a Temperate Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3158-3167.	3.0	10
169	Varying soil respiration under long-term warming and clipping due to shifting carbon allocation toward below-ground. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108408.	4.8	10
170	Mature forest shows little increase in carbon uptake in a CO ₂ -enriched atmosphere. <i>Nature</i> , 2020, 580, 191-192.	27.8	10
171	Global evidence on the asymmetric response of gross primary productivity to interannual precipitation changes. <i>Science of the Total Environment</i> , 2022, 814, 152786.	8.0	10
172	Widespread asymmetric response of soil heterotrophic respiration to warming and cooling. <i>Science of the Total Environment</i> , 2018, 635, 423-431.	8.0	9
173	Contrasting nutrient-mediated responses between surface and deep fine root biomass to N addition in poplar plantations on the east coast of China. <i>Forest Ecology and Management</i> , 2021, 490, 119152.	3.2	9
174	Ecophysiological Response of Plants to Combined Pollution from Heavy-duty Vehicles and Industrial Emissions in Higher Humidity. <i>Journal of Integrative Plant Biology</i> , 2006, 48, 1391-1400.	8.5	8
175	Experimental warming amplified opposite impacts of drought vs. wet extremes on ecosystem carbon cycle in a tallgrass prairie. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107635.	4.8	7
176	Dynamics of soil water extractable organic carbon and inorganic nitrogen and their environmental controls in mountain forest and meadow ecosystems in China. <i>Catena</i> , 2020, 187, 104338.	5.0	7
177	Shifting community composition determines the biodiversity-productivity relationship under increasing precipitation and N deposition. <i>Journal of Vegetation Science</i> , 2021, 32, e12998.	2.2	7
178	Nitrogen use efficiency of terrestrial plants in China: geographic patterns, evolution, and determinants. <i>Ecological Processes</i> , 2021, 10, .	3.9	7
179	Global patterns and drivers of soil nematodes in response to nitrogen enrichment. <i>Catena</i> , 2022, 213, 106235.	5.0	7
180	Long-term effects of forest thinning on soil respiration and its components in a pine plantation. <i>Forest Ecology and Management</i> , 2022, 513, 120189.	3.2	7

#	ARTICLE	IF	CITATIONS
181	Drought shrinks terrestrial upland resilience to climate change. <i>Global Ecology and Biogeography</i> , 2020, 29, 1840-1851.	5.8	6
182	Clipping increases ecosystem carbon sequestration and its sensitivity to precipitation change in an alpine meadow. <i>Plant and Soil</i> , 2021, 458, 165-174.	3.7	6
183	Temperature Sensitivity of Canopy Photosynthesis Phenology in Northern Ecosystems. , 2013, , 503-519.		6
184	Tracking Global Patterns of Drought-Induced Productivity Loss Along Severity Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	6
185	Photosynthetic Response to Soil Water Contents of an Annual Pioneer C ₄ Grass (<i>Agriophyllum squarrosum</i>) in Hunshandak Sandland, China. <i>Photosynthetica</i> , 2003, 41, 293-296.	1.7	5
186	Alleviation of light limitation increases plant diversity and ecosystem carbon sequestration under nitrogen enrichment in an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2021, 298-299, 108269.	4.8	5
187	Heterotrophic respiration and its proportion to total soil respiration decrease with warming but increase with clipping. <i>Catena</i> , 2022, 215, 106321.	5.0	5
188	Nitrogen enrichment alters climate sensitivity of biodiversity and productivity differentially and reverses the relationship between them in an alpine meadow. <i>Science of the Total Environment</i> , 2022, 835, 155418.	8.0	5
189	Contrasting effects of clipping and nutrient addition on reproductive traits of <i>Heteropappus altaicus</i> at the individual and population levels. <i>Ecological Research</i> , 2010, 25, 867-874.	1.5	4
190	Hysteretic relationship between plant productivity and methane uptake in an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2020, 288-289, 107982.	4.8	4
191	Gas exchanges of an endangered species <i>Syringa pinnatifolia</i> and a widespread congener <i>S. oblata</i> . <i>Photosynthetica</i> , 2004, 42, 529-534.	1.7	3
192	Spatial variations in terrestrial net ecosystem productivity and its local indicators. <i>Biogeosciences</i> , 2020, 17, 6237-6246.	3.3	3
193	é™æ°æ¼±æ”1ã~èfCæ™-ä,ãœŸá£á¼áã~áCÉ-çš,,ä»è á½±á“á»çáãá...¶è°fæŽšè;ç“«. <i>Chinese Journal of Plant Ecology</i> , 2017, 41		
194	Patterns and affecting factors of nitrogen use efficiency of plant leaves and roots in Nei Mongol and Qinghai-Xizang Plateau grasslands. <i>Chinese Journal of Plant Ecology</i> , 2019, 43, 566-575.	0.6	3
195	Dryness controls temperature-optimized gross primary productivity across vegetation types. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109073.	4.8	3
196	Warmer and wetter climate promotes net primary production in C ₄ grassland with additional enhancement by hay harvesting. <i>Ecosphere</i> , 2022, 13, .	2.2	2
197	Reparameterization Required After Model Structure Changes From Carbon Only to Carbon-Nitrogen Coupling. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	2
198	Direct N ₂ O emission from agricultural soils in Poland between 1960 and 2009. <i>Regional Environmental Change</i> , 2014, 14, 1073-1082.	2.9	1

#	ARTICLE	IF	CITATIONS
199	Microbes drive global soil nitrogen mineralization and availability. , 2019, 25, 1078.		1
200	Seasonal and Inter-Annual Variations of Carbon Dioxide Fluxes and Their Determinants in an Alpine Meadow. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	1
201	Global Change and Terrestrial Ecosystems. <i>Springer Geography</i> , 2017, , 205-232.	0.4	0
202	Spatial analysis of growing season peak control over gross primary production in northern ecosystems using modis-GPP dataset. , 2017, , .		0