Shuli Niu

List of Publications by Year in Descending Order

188 papers	7,912 citations	46 h-index	83 g-index
216 ext. papers	10,657 ext. citations	7.1 avg, IF	6.24 L-index

#	Paper	IF	Citations
188	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality.. *Science China Life Sciences*, **2022**, 1	8.5	9
187	Global evidence on the asymmetric response of gross primary productivity to interannual precipitation changes.. *Science of the Total Environment*, **2022**, 814, 152786	10.2	0
186	Increased soil microbial AOB amoA and narG abundances sustain long-term positive responses of nitrification and denitrification to N deposition. *Soil Biology and Biochemistry*, **2022**, 166, 108539	7.5	2
185	Heavy thinning reduces soil organic carbon: Evidence from a 9-year thinning experiment in a pine plantation. *Catena*, **2022**, 211, 106013	5.8	1
184	A global synthesis reveals increases in soil greenhouse gas emissions under forest thinning. *Science of the Total Environment*, **2022**, 804, 150225	10.2	3
183	Ecosystem restoration and belowground multifunctionality: A network view.. *Ecological Applications*, **2022**, e2575	4.9	1
182	SOIL CARBON DYNAMICS AND RESPONSES TO ENVIRONMENTAL CHANGES **2022**, 207-231		
181	An integrated belowground trait-based understanding of nitrogen driven plant diversity loss.. *Global Change Biology*, **2022**,	11.4	2
180	Tree mortality in a warming world: causes, patterns, and implications. *Environmental Research Letters*, **2022**, 17, 030201	6.2	4
179	Variance and main drivers of field nitrous oxide emissions: A global synthesis. *Journal of Cleaner Production*, **2022**, 131686	10.3	1
178	Global patterns and drivers of soil nematodes in response to nitrogen enrichment. *Catena*, **2022**, 213, 106235	5.8	0
177	Long-term effects of forest thinning on soil respiration and its components in a pine plantation. *Forest Ecology and Management*, **2022**, 513, 120189	3.9	0
176	Heterotrophic respiration and its proportion to total soil respiration decrease with warming but increase with clipping. *Catena*, **2022**, 215, 106321	5.8	0
175	Nitrogen enrichment alters climate sensitivity of biodiversity and productivity differentially and reverses the relationship between them in an alpine meadow.. *Science of the Total Environment*, **2022**, 155418	10.2	
174	Variations and controlling factors of soil denitrification rate.. *Global Change Biology*, **2021**,	11.4	3
173	Global Soil Gross Nitrogen Transformation Under Increasing Nitrogen Deposition. *Global Biogeochemical Cycles*, **2021**, 35,	5.9	3
172	Vital roles of soil microbes in driving terrestrial nitrogen immobilization. *Global Change Biology*, **2021**, 27, 1848-1858	11.4	12

171	Fine-root functional trait responses to experimental warming: a global meta-analysis. *New Phytologist*, **2021**, 230, 1856-1867	9.8	11
170	Increased CO emissions surpass reductions of non-CO emissions more under higher experimental warming in an alpine meadow. *Science of the Total Environment*, **2021**, 769, 144559	10.2	4
169	Different responses of soil respiration and its components to nitrogen and phosphorus addition in a subtropical secondary forest. *Forest Ecosystems*, **2021**, 8,	3.8	1
168	Discrepant responses between evapotranspiration- and transpiration-based ecosystem water use efficiency to interannual precipitation fluctuations. *Agricultural and Forest Meteorology*, **2021**, 303, 108385	5.8	6
167	Relationships Between Leaf Carbon and Macronutrients Across Woody Species and Forest Ecosystems Highlight How Carbon Is Allocated to Leaf Structural Function. *Frontiers in Plant Science* , **2021**, 12, 674932	6.2	2
166	Contrasting nutrient-mediated responses between surface and deep fine root biomass to N addition in poplar plantations on the east coast of China. *Forest Ecology and Management*, **2021**, 490, 119152	3.9	1
165	Precipitation manipulation and terrestrial carbon cycling: The roles of treatment magnitude, experimental duration and local climate. *Global Ecology and Biogeography*, **2021**, 30, 1909-1921	6.1	2
164	FLUXNET-CH₄: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. *Earth System Science Data*, **2021**, 13, 3607-3689	10.5	23
163	Diversity of plant and soil microbes mediates the response of ecosystem multifunctionality to grazing disturbance. *Science of the Total Environment*, **2021**, 776, 145730	10.2	8
162	Varying soil respiration under long-term warming and clipping due to shifting carbon allocation toward below-ground. *Agricultural and Forest Meteorology*, **2021**, 304-305, 108408	5.8	2
161	Global soil-derived ammonia emissions from agricultural nitrogen fertilizer application: A refinement based on regional and crop-specific emission factors. *Global Change Biology*, **2021**, 27, 855-867	11.4	30
160	The Global-DEP conceptual framework research on dryland ecosystems to promote sustainability. *Current Opinion in Environmental Sustainability*, **2021**, 48, 17-28	7.2	16
159	Toward a sustainable grazing management based on biodiversity and ecosystem multifunctionality in drylands. *Current Opinion in Environmental Sustainability*, **2021**, 48, 36-43	7.2	10
158	Effects of warming and clipping on CH4 and N2O fluxes in an alpine meadow. *Agricultural and Forest Meteorology*, **2021**, 297, 108278	5.8	5
157	Alleviation of light limitation increases plant diversity and ecosystem carbon sequestration under nitrogen enrichment in an alpine meadow. *Agricultural and Forest Meteorology*, **2021**, 298-299, 108269	5.8	2
156	Common Species Stability and Species Asynchrony Rather than Richness Determine Ecosystem Stability Under Nitrogen Enrichment. *Ecosystems*, **2021**, 24, 686-698	3.9	8
155	Clipping increases ecosystem carbon sequestration and its sensitivity to precipitation change in an alpine meadow. *Plant and Soil*, **2021**, 458, 165-174	4.2	2
154	Experimental warming shifts coupling of carbon and nitrogen cycles in an alpine meadow. *Journal of Plant Ecology*, **2021**, 14, 541-554	1.7	2

153	Shifting community composition determines the biodiversity–productivity relationship under increasing precipitation and N deposition. *Journal of Vegetation Science*, **2021**, 32, e12998	3.1	1
152	Divergent responses of primary production to increasing precipitation variability in global drylands. *Global Change Biology*, **2021**, 27, 5225-5237	11.4	3
151	Moving toward a new era of ecosystem science. *Geography and Sustainability*, **2021**, 2, 151-162	7.3	5
150	Microaggregates regulated by edaphic properties determine the soil carbon stock in Tibetan alpine grasslands. *Catena*, **2021**, 206, 105570	5.8	4
149	High-level rather than low-level warming destabilizes plant community biomass production. *Journal of Ecology*, **2021**, 109, 1607-1617	6	3
148	Global variations and controlling factors of soil nitrogen turnover rate. *Earth-Science Reviews*, **2020**, 207, 103250	10.2	10
147	Hysteretic relationship between plant productivity and methane uptake in an alpine meadow. *Agricultural and Forest Meteorology*, **2020**, 288-289, 107982	5.8	2
146	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. *Trends in Ecology and Evolution*, **2020**, 35, 908-918	10.9	37
145	Light Competition and Biodiversity Loss Cause Saturation Response of Aboveground Net Primary Productivity to Nitrogen Enrichment. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005556	3.7	4
144	The stoichiometry of soil microbial biomass determines metabolic quotient of nitrogen mineralization. *Environmental Research Letters*, **2020**, 15, 034005	6.2	10
143	Plants with lengthened phenophases increase their dominance under warming in an alpine plant community. *Science of the Total Environment*, **2020**, 728, 138891	10.2	8
142	Spatial variations in terrestrial net ecosystem productivity and its local indicators. *Biogeosciences*, **2020**, 17, 6237-6246	4.6	2
141	Carbon management practices regulate soil bacterial communities in response to nitrogen addition in a pine forest. *Plant and Soil*, **2020**, 452, 137-151	4.2	7
140	Dynamics of soil water extractable organic carbon and inorganic nitrogen and their environmental controls in mountain forest and meadow ecosystems in China. *Catena*, **2020**, 187, 104338	5.8	3
139	Global meta-analysis on the responses of soil extracellular enzyme activities to warming. *Science of the Total Environment*, **2020**, 705, 135992	10.2	27
138	Nitrogen deposition differentially affects soil gross nitrogen transformations in organic and mineral horizons. *Earth-Science Reviews*, **2020**, 201, 103033	10.2	17
137	Gene-informed decomposition model predicts lower soil carbon loss due to persistent microbial adaptation to warming. *Nature Communications*, **2020**, 11, 4897	17.4	21
136	Shifting biomass allocation determines community water use efficiency under climate warming. *Environmental Research Letters*, **2020**, 15, 094041	6.2	4

135	Diversity-decomposition relationships in forests worldwide. *ELife*, **2020**, 9,	8.9	12
134	Drought shrinks terrestrial upland resilience to climate change. *Global Ecology and Biogeography*, **2020**, 29, 1840-1851	6.1	3
133	Integrative ecology in the era of big data: From observation to prediction. *Science China Earth Sciences*, **2020**, 63, 1429-1442	4.6	6
132	Research challenges and opportunities for using big data in global change biology. *Global Change Biology*, **2020**, 26, 6040-6061	11.4	15
131	Global patterns and controlling factors of soil nitrification rate. *Global Change Biology*, **2020**, 26, 4147-4157	11.4	41
130	Vegetation type controls root turnover in global grasslands. *Global Ecology and Biogeography*, **2019**, 28, 442-455	6.1	21
129	When does extreme drought elicit extreme ecological responses?. *Journal of Ecology*, **2019**, 107, 2553-2563	5.4	19
128	Soil and climate determine differential responses of soil respiration to nitrogen and acid deposition along a forest transect. *European Journal of Soil Biology*, **2019**, 93, 103097	2.9	10
127	Experimental warming amplified opposite impacts of drought vs. wet extremes on ecosystem carbon cycle in a tallgrass prairie. *Agricultural and Forest Meteorology*, **2019**, 276-277, 107635	5.8	3
126	Global soil acidification impacts on belowground processes. *Environmental Research Letters*, **2019**, 14, 074003	6.2	44
125	Diel and Seasonal Dynamics of Ecosystem-Scale Methane Flux and Their Determinants in an Alpine Meadow. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 1731-1745	3.7	6
124	Maximum carbon uptake rate dominates the interannual variability of global net ecosystem exchange. *Global Change Biology*, **2019**, 25, 3381-3394	11.4	34
123	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. *Global Biogeochemical Cycles*, **2019**, 33, 668-689	5.9	21
122	Air temperature optima of vegetation productivity across global biomes. *Nature Ecology and Evolution*, **2019**, 3, 772-779	12.3	128
121	Differential responses of ecosystem carbon flux components to experimental precipitation gradient in an alpine meadow. *Functional Ecology*, **2019**, 33, 889-900	5.6	20
120	Environmental variables better explain changes in potential nitrification and denitrification activities than microbial properties in fertilized forest soils. *Science of the Total Environment*, **2019**, 647, 653-662	10.2	27
119	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. *Nature Ecology and Evolution*, **2019**, 3, 1309-1320	12.3	150
118	Nitrogen addition reduces soil respiration but increases the relative contribution of heterotrophic component in an alpine meadow. *Functional Ecology*, **2019**, 33, 2239-2253	5.6	22

117	Water scaling of ecosystem carbon cycle feedback to climate warming. *Science Advances*, **2019**, 5, eaav1131	13.1	56
116	FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. *Bulletin of the American Meteorological Society*, **2019**, 100, 2607-2632	6.1	77
115	Different Responses and Links of N:P Ratio Among Ecosystem Components Under Nutrient Addition in a Temperate Forest. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 3158-3167	3.7	0
114	Microbes drive global soil nitrogen mineralization and availability **2019**, 25, 1078		1
113	Differential mechanisms underlying responses of soil bacterial and fungal communities to nitrogen and phosphorus inputs in a subtropical forest. *PeerJ*, **2019**, 7, e7631	3.1	6
112	Global changes alter plant multi-element stoichiometric coupling. *New Phytologist*, **2019**, 221, 807-817	9.8	60
111	Different strategies for regulating free-living N2 fixation in nutrient-amended subtropical and temperate forest soils. *Applied Soil Ecology*, **2019**, 136, 21-29	5	10
110	Microbes drive global soil nitrogen mineralization and availability. *Global Change Biology*, **2019**, 25, 1078-1088	10.4	103
109	Heavy grazing reduces grassland soil greenhouse gas fluxes: A global meta-analysis. *Science of the Total Environment*, **2019**, 654, 1218-1224	10.2	25
108	Ecosystem Traits Linking Functional Traits to Macroecology. *Trends in Ecology and Evolution*, **2019**, 34, 200-210	10.9	64
107	Responses of soil enzymatic activities to transgenic Bacillus thuringiensis (Bt) crops - A global meta-analysis. *Science of the Total Environment*, **2019**, 651, 1830-1838	10.2	13
106	Crowther et al. reply. *Nature*, **2018**, 554, E7-E8	50.4	11
105	Carbon storage in China's terrestrial ecosystems: A synthesis. *Scientific Reports*, **2018**, 8, 2806	4.9	42
104	Transpiration Dominates Ecosystem Water-Use Efficiency in Response to Warming in an Alpine Meadow. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 453-462	3.7	25
103	Plant functional groups regulate soil respiration responses to nitrogen addition and mowing over a decade. *Functional Ecology*, **2018**, 32, 1117-1127	5.6	26
102	Divergent responses of ecosystem respiration components to livestock exclusion on the Qinghai Tibetan Plateau. *Land Degradation and Development*, **2018**, 29, 1726-1737	4.4	12
101	Divergent biomass partitioning to aboveground and belowground across forests in China. *Journal of Plant Ecology*, **2018**, 11, 484-492	1.7	7
100	Contrasting responses of phosphatase kinetic parameters to nitrogen and phosphorus additions in forest soils. *Functional Ecology*, **2018**, 32, 106-116	5.6	28

99	Size-dependent nutrient limitation of tree growth from subtropical to cold temperate forests. *Functional Ecology*, **2018**, 32, 95-105	5.6	27
98	Soil acid cations induced reduction in soil respiration under nitrogen enrichment and soil acidification. *Science of the Total Environment*, **2018**, 615, 1535-1546	10.2	46
97	Ecosystem Carbon Use Efficiency Is Insensitive to Nitrogen Addition in an Alpine Meadow. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 2388-2398	3.7	10
96	Different responses of soil organic carbon fractions to additions of nitrogen. *European Journal of Soil Science*, **2018**, 69, 1098-1104	3.4	14
95	Differential responses of carbon-degrading enzyme activities to warming: Implications for soil respiration. *Global Change Biology*, **2018**, 24, 4816-4826	11.4	56
94	Limits to growth of forest biomass carbon sink under climate change. *Nature Communications*, **2018** , 9, 2709	17.4	37
93	Climatic role of terrestrial ecosystem under elevated CO : a bottom-up greenhouse gases budget. *Ecology Letters*, **2018**, 21, 1108-1118	10	49
92	Cropland abandonment enhances soil inorganic nitrogen retention and carbon stock in China: A meta-analysis. *Land Degradation and Development*, **2018**, 29, 3898-3906	4.4	13
91	Soil and vegetation carbon turnover times from tropical to boreal forests. *Functional Ecology*, **2018**, 32, 71-82	5.6	38
90	Soil gross N ammonification and nitrification from tropical to temperate forests in eastern China. *Functional Ecology*, **2018**, 32, 83-94	5.6	22
89	Soil organic matter availability and climate drive latitudinal patterns in bacterial diversity from tropical to cold temperate forests. *Functional Ecology*, **2018**, 32, 61-70	5.6	63
88	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. *Agricultural and Forest Meteorology*, **2018**, 263, 292-307	5.8	21
87	Widespread asymmetric response of soil heterotrophic respiration to warming and cooling. *Science of the Total Environment*, **2018**, 635, 423-431	10.2	7
86	A global synthesis of the rate and temperature sensitivity of soil nitrogen mineralization: latitudinal patterns and mechanisms. *Global Change Biology*, **2017**, 23, 455-464	11.4	89
85	Regional variation in the temperature sensitivity of soil organic matter decomposition in China's forests and grasslands. *Global Change Biology*, **2017**, 23, 3393-3402	11.4	58
84	Long term trend and interannual variability of land carbon uptake—the attribution and processes. *Environmental Research Letters*, **2017**, 12, 014018	6.2	22
83	Nonlinear responses of land ecosystems to variation in precipitation. *New Phytologist*, **2017**, 214, 5-7	9.8	46
82	Climate controls over the net carbon uptake period and amplitude of net ecosystem production in temperate and boreal ecosystems. *Agricultural and Forest Meteorology*, **2017**, 243, 9-18	5.8	43

81	Interannual variability of ecosystem carbon exchange: From observation to prediction. *Global Ecology and Biogeography*, **2017**, 26, 1225-1237	6.1	42
80	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. *Biogeosciences*, **2017**, 14, 145-161	4.6	61
79	Initial shifts in nitrogen impact on ecosystem carbon fluxes in an alpine meadow: patterns and causes. *Biogeosciences*, **2017**, 14, 3947-3956	4.6	23
78	Recovery time and state change of terrestrial carbon cycle after disturbance. *Environmental Research Letters*, **2017**, 12, 104004	6.2	29
77	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. *Global Biogeochemical Cycles*, **2017**, 31, 1639-1655	5.9	38
76	Net primary productivity and its partitioning in response to precipitation gradient in an alpine meadow. *Scientific Reports*, **2017**, 7, 15193	4.9	19
75	Global Change and Terrestrial Ecosystems. *Springer Geography*, **2017**, 205-232	0.4	
74	Costimulation of soil glycosidase activity and soil respiration by nitrogen addition. *Global Change Biology*, **2017**, 23, 1328-1337	11.4	90
73	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. *Ecosystems* , **2017**, 20, 515-526	3.9	37
72	Effects of warming and increased precipitation on net ecosystem productivity: A long-term manipulative experiment in a semiarid grassland. *Agricultural and Forest Meteorology*, **2017**, 232, 359-368	5.8	47
71	A synthesis of the effect of grazing exclusion on carbon dynamics in grasslands in China. *Global Change Biology*, **2016**, 22, 1385-93	11.4	96
70	Precipitation regulates plant gas exchange and its long-term response to climate change in a temperate grassland. *Journal of Plant Ecology*, **2016**, 9, 531-541	1.7	46
69	Differential responses of ecosystem respiration components to experimental warming in a meadow grassland on the Tibetan Plateau. *Agricultural and Forest Meteorology*, **2016**, 220, 21-29	5.8	90
68	Global evidence on nitrogen saturation of terrestrial ecosystem net primary productivity. *Environmental Research Letters*, **2016**, 11, 024012	6.2	69
67	Nonlinear responses of ecosystem carbon fluxes and water-use efficiency to nitrogen addition in Inner Mongolia grassland. *Functional Ecology*, **2016**, 30, 490-499	5.6	47
66	Unchanged carbon balance driven by equivalent responses of production and respiration to climate change in a mixed-grass prairie. *Global Change Biology*, **2016**, 22, 1857-66	11.4	30
65	Aggravated phosphorus limitation on biomass production under increasing nitrogen loading: a meta-analysis. *Global Change Biology*, **2016**, 22, 934-43	11.4	205
64	Shifting Impacts of Climate Change: Long-Term Patterns of Plant Response to Elevated CO2, Drought, and Warming Across Ecosystems. *Advances in Ecological Research*, **2016**, 55, 437-473	4.6	24

63	Quantifying global soil carbon losses in response to warming. *Nature*, **2016**, 540, 104-108	50.4	560
62	Direct and indirect effects of climatic variations on the interannual variability in net ecosystem exchange across terrestrial ecosystems. *Tellus, Series B: Chemical and Physical Meteorology*, **2016**, 68, 30575	3.3	16
61	Global patterns and substrate-based mechanisms of the terrestrial nitrogen cycle. *Ecology Letters*, **2016**, 19, 697-709	10	128
60	A global analysis of soil acidification caused by nitrogen addition. *Environmental Research Letters*, **2015**, 10, 024019	6.2	392
59	Elevated atmospheric carbon dioxide concentration stimulates soil microbial activity and impacts water-extractable organic carbon in an agricultural soil. *Biogeochemistry*, **2015**, 122, 253-267	3.8	9
58	What have we learned from global change manipulative experiments in China? A meta-analysis. *Scientific Reports*, **2015**, 5, 12344	4.9	29
57	Covariation between gross primary production and ecosystem respiration across space and the underlying mechanisms: A global synthesis. *Agricultural and Forest Meteorology*, **2015**, 203, 180-190	5.8	43
56	Light-intensity grazing improves alpine meadow productivity and adaption to climate change on the Tibetan Plateau. *Scientific Reports*, **2015**, 5, 15949	4.9	36
55	Joint control of terrestrial gross primary productivity by plant phenology and physiology. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2788-93	11.5	181
54	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. *Agricultural and Forest Meteorology*, **2015**, 205, 11-22	5.8	36
53	Direct N2O emission from agricultural soils in Poland between 1960 and 2009. *Regional Environmental Change*, **2014**, 14, 1073-1082	4.3	1
52	Plant growth and mortality under climatic extremes: An overview. *Environmental and Experimental Botany*, **2014**, 98, 13-19	5.9	113
51	Soil carbon fractions in grasslands respond differently to various levels of nitrogen enrichments. *Plant and Soil*, **2014**, 384, 401-412	4.2	32
50	The role of data assimilation in predictive ecology. *Ecosphere*, **2014**, 5, art65	3.1	52
49	Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. *Journal of Plant Ecology*, **2014**, 7, 419-428	1.7	13
48	Effects of grazing regimes on plant traits and soil nutrients in an alpine steppe, Northern Tibetan Plateau. *PLoS ONE*, **2014**, 9, e108821	3.7	36
47	The effect of warming on grassland evapotranspiration partitioning using laser-based isotope monitoring techniques. *Geochimica Et Cosmochimica Acta*, **2013**, 111, 28-38	5.5	58
46	Net primary productivity and rain-use efficiency as affected by warming, altered precipitation, and clipping in a mixed-grass prairie. *Global Change Biology*, **2013**, 19, 2753-64	11.4	98

45	Ecosystem Carbon Fluxes in Response to Warming and Clipping in a Tallgrass Prairie. *Ecosystems*, **2013**, 16, 948-961	3.9	60
44	Temperature Sensitivity of Canopy Photosynthesis Phenology in Northern Ecosystems **2013**, 503-519		2
43	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. *New Phytologist*, **2012**, 194, 775-783	9.8	81
42	Global patterns of the dynamics of soil carbon and nitrogen stocks following afforestation: a meta-analysis. *New Phytologist*, **2012**, 195, 172-81	9.8	355
41	Long-term experimental warming decreased labile soil organic carbon in a tallgrass prairie. *Plant and Soil*, **2012**, 361, 307-315	4.2	29
40	A framework for benchmarking land models. *Biogeosciences*, **2012**, 9, 3857-3874	4.6	238
39	Interannual variability in responses of belowground net primary productivity (NPP) and NPP partitioning to long-term warming and clipping in a tallgrass prairie. *Global Change Biology*, **2012**, 18, 1648-1656	11.4	64
38	Light and heavy fractions of soil organic matter in response to climate warming and increased precipitation in a temperate steppe. *PLoS ONE*, **2012**, 7, e33217	3.7	50
37	Effects of mowing on methane uptake in a semiarid grassland in northern China. *PLoS ONE*, **2012**, 7, e35952	3.7	9
36	Thermal adaptation of net ecosystem exchange. *Biogeosciences*, **2011**, 8, 1453-1463	4.6	23
35	Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. *Global Change Biology*, **2011**, 17, 843-854	11.4	144
34	Water-use efficiency in response to climate change: from leaf to ecosystem in a temperate steppe. *Global Change Biology*, **2011**, 17, 1073-1082	11.4	190
33	Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes. *Global Change Biology*, **2011**, 17, 3102-3114	11.4	49
32	Nitrogen effects on net ecosystem carbon exchange in a temperate steppe. *Global Change Biology*, **2010**, 16, 144-155	11.4	146
31	Increased temperature and precipitation interact to affect root production, mortality, and turnover in a temperate steppe: implications for ecosystem C cycling. *Global Change Biology*, **2010**, 16, 1306-1316	11.4	146
30	Nitrogen regulation of the climate-carbon feedback: evidence from a long-term global change experiment. *Ecology*, **2010**, 91, 3261-73	4.6	47
29	Experimental warming and clipping altered litter carbon and nitrogen dynamics in a tallgrass prairie. *Agriculture, Ecosystems and Environment*, **2010**, 138, 206-213	5.7	37
28	Contrasting effects of clipping and nutrient addition on reproductive traits of Heteropappus altaicus at the individual and population levels. *Ecological Research*, **2010**, 25, 867-874	1.9	4

27	Non-Additive Effects of Water and Nitrogen Addition on Ecosystem Carbon Exchange in a Temperate Steppe. *Ecosystems*, **2009**, 12, 915-926	3.9	107
26	Response of ecosystem carbon exchange to warming and nitrogen addition during two hydrologically contrasting growing seasons in a temperate steppe. *Global Change Biology*, **2009**, 15, 1544-1556	11.4	190
25	Photosynthetic overcompensation under nocturnal warming enhances grassland carbon sequestration. *Ecology*, **2009**, 90, 2700-10	4.6	159
24	Water-mediated responses of ecosystem carbon fluxes to climatic change in a temperate steppe. *New Phytologist*, **2008**, 177, 209-219	9.8	304
23	Climatic warming changes plant photosynthesis and its temperature dependence in a temperate steppe of northern China. *Environmental and Experimental Botany*, **2008**, 63, 91-101	5.9	88
22	Different growth responses of C3 and C4 grasses to seasonal water and nitrogen regimes and competition in a pot experiment. *Journal of Experimental Botany*, **2008**, 59, 1431-9	7	31
21	Species-specific response of photosynthesis to burning and nitrogen fertilization. *Journal of Integrative Plant Biology*, **2008**, 50, 565-74	8.3	13
20	Plant nitrogen dynamics and nitrogen-use strategies under altered nitrogen seasonality and competition. *Annals of Botany*, **2007**, 100, 821-30	4.1	25
19	Photosynthesis, transpiration and water use efficiency of four plant species with grazing intensities in Hunshandak Sandland, China. *Journal of Arid Environments*, **2007**, 70, 304-315	2.5	26
18	A sand-fixing pioneer C3 species in sandland displays characteristics of C4 metabolism. *Environmental and Experimental Botany*, **2006**, 57, 123-130	5.9	10
17	Effects of interspecific competition and nitrogen seasonality on the photosynthetic characteristics of C3 and C4 grasses. *Environmental and Experimental Botany*, **2006**, 57, 270-277	5.9	11
16	Ecophysiological Response of Plants to Combined Pollution from Heavy-duty Vehicles and Industrial Emissions in Higher Humidity. *Journal of Integrative Plant Biology*, **2006**, 48, 1391-1400	8.3	7
15	Diurnal variation of gas exchange, chlorophyll fluorescence, and xanthophyll cycle components of maize hybrids released in different years. *Photosynthetica*, **2006**, 44, 26-31	2.2	25
14	Ecophysiological acclimation to different soil moistures in plants from a semi-arid sandland. *Journal of Arid Environments*, **2005**, 63, 353-365	2.5	18
13	Post-anthesis changes in photosynthetic traits of maize hybrids released in different years. *Field Crops Research*, **2005**, 93, 108-115	5.5	62
12	Potentials for combating desertification in Hunshandak Sandland through nature reserve. *Environmental Management*, **2005**, 35, 453-60	3.1	7
11	Photosynthetic responses of C3 and C4 species to seasonal water variability and competition. *Journal of Experimental Botany*, **2005**, 56, 2867-76	7	34
10	Gas Exchange and Chlorophyll Fluorescence Response to Simulated Rainfall in Hedysarum fruticosum var. mongolicum. *Photosynthetica*, **2004**, 42, 1-6	2.2	8

9	Traits of Chlorophyll Fluorescence in 99 Plant Species from the Sparse-Elm Grassland in Hunshandak Sandland. *Photosynthetica*, **2004**, 42, 243-249	2.2	13
8	Gas exchanges of an endangered species Syringa pinnatifolia and a widespread congener S. oblata. *Photosynthetica*, **2004**, 42, 529-534	2.2	3
7	Control of sandstorms in Inner Mongolia, China. *Environmental Conservation*, **2004**, 31, 269-273	3.3	11
6	Comparison of Photosynthetic Traits Between Two Typical Shrubs: Legume and Non-Legume in Hunshandak Sandland. *Photosynthetica*, **2003**, 41, 111-116	2.2	14
5	Diurnal Gas Exchange and Superior Resources Use Efficiency of Typical C4 Species in Hunshandak Sandland, China. *Photosynthetica*, **2003**, 41, 221-226	2.2	18
4	Gas Exchange and Water Use Efficiency of Three Native Tree Species in Hunshandak Sandland of China. *Photosynthetica*, **2003**, 41, 227-232	2.2	14
3	Photosynthetic Response to Soil Water Contents of an Annual Pioneer C4 Grass (Agriophyllum squarrosum) in Hunshandak Sandland, China. *Photosynthetica*, **2003**, 41, 293-296	2.2	4
2	Gas Exchange, Photochemical Efficiency, and Leaf Water Potential in Three Salix Species. *Photosynthetica*, **2003**, 41, 393-398	2.2	20
1	Leaf osmotic potentials of 104 plant species in relation to habitats and plant functional types in Hunshandak Sandland, Inner Mongolia, China. *Trees - Structure and Function*, **2003**, 17, 554-560	2.6	17