

Shuli Niu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016 , 540, 104-108	50.4	560
187	A global analysis of soil acidification caused by nitrogen addition. <i>Environmental Research Letters</i> , 2015 , 10, 024019	6.2	392
186	Global patterns of the dynamics of soil carbon and nitrogen stocks following afforestation: a meta-analysis. <i>New Phytologist</i> , 2012 , 195, 172-81	9.8	355
185	Water-mediated responses of ecosystem carbon fluxes to climatic change in a temperate steppe. <i>New Phytologist</i> , 2008 , 177, 209-219	9.8	304
184	A framework for benchmarking land models. <i>Biogeosciences</i> , 2012 , 9, 3857-3874	4.6	238
183	Aggravated phosphorus limitation on biomass production under increasing nitrogen loading: a meta-analysis. <i>Global Change Biology</i> , 2016 , 22, 934-43	11.4	205
182	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	11.4	190
181	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	11.4	190
180	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, 2788-93	11.5	181
179	Photosynthetic overcompensation under nocturnal warming enhances grassland carbon sequestration. <i>Ecology</i> , 2009 , 90, 2700-10	4.6	159
178	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	12.3	150
177	Nitrogen effects on net ecosystem carbon exchange in a temperate steppe. <i>Global Change Biology</i> , 2010 , 16, 144-155	11.4	146
176	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	11.4	146
175	Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. <i>Global Change Biology</i> , 2011 , 17, 843-854	11.4	144
174	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
173	Global patterns and substrate-based mechanisms of the terrestrial nitrogen cycle. <i>Ecology Letters</i> , 2016 , 19, 697-709	10	128
172	Plant growth and mortality under climatic extremes: An overview. <i>Environmental and Experimental Botany</i> , 2014 , 98, 13-19	5.9	113

171	Non-Additive Effects of Water and Nitrogen Addition on Ecosystem Carbon Exchange in a Temperate Steppe. <i>Ecosystems</i> , 2009 , 12, 915-926	3.9	107
170	Microbes drive global soil nitrogen mineralization and availability. <i>Global Change Biology</i> , 2019 , 25, 1078-1088	11.4	103
169	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, 2753-64	11.4	98
168	A synthesis of the effect of grazing exclusion on carbon dynamics in grasslands in China. <i>Global Change Biology</i> , 2016 , 22, 1385-93	11.4	96
167	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	5.8	90
166	Costimulation of soil glycosidase activity and soil respiration by nitrogen addition. <i>Global Change Biology</i> , 2017 , 23, 1328-1337	11.4	90
165	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	11.4	89
164	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	5.9	88
163	Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms. <i>New Phytologist</i> , 2012 , 194, 775-783	9.8	81
162	FLUXNET-CH4 Synthesis Activity: Objectives, Observations, and Future Directions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2607-2632	6.1	77
161	Global evidence on nitrogen saturation of terrestrial ecosystem net primary productivity. <i>Environmental Research Letters</i> , 2016 , 11, 024012	6.2	69
160	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	11.4	64
159	Ecosystem Traits Linking Functional Traits to Macroecology. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 200-210	10.9	64
158	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	5.6	63
157	Post-anthesis changes in photosynthetic traits of maize hybrids released in different years. <i>Field Crops Research</i> , 2005 , 93, 108-115	5.5	62
156	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. <i>Biogeosciences</i> , 2017 , 14, 145-161	4.6	61
155	Ecosystem Carbon Fluxes in Response to Warming and Clipping in a Tallgrass Prairie. <i>Ecosystems</i> , 2013 , 16, 948-961	3.9	60
154	Global changes alter plant multi-element stoichiometric coupling. <i>New Phytologist</i> , 2019 , 221, 807-817	9.8	60

153	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	11.4	58
152	The effect of warming on grassland evapotranspiration partitioning using laser-based isotope monitoring techniques. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 111, 28-38	5.5	58
151	Differential responses of carbon-degrading enzyme activities to warming: Implications for soil respiration. <i>Global Change Biology</i> , 2018 , 24, 4816-4826	11.4	56
150	Water scaling of ecosystem carbon cycle feedback to climate warming. <i>Science Advances</i> , 2019 , 5, eaav11313	11.3	56
149	The role of data assimilation in predictive ecology. <i>Ecosphere</i> , 2014 , 5, art65	3.1	52
148	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	3.7	50
147	Climatic role of terrestrial ecosystem under elevated CO ₂ : a bottom-up greenhouse gases budget. <i>Ecology Letters</i> , 2018 , 21, 1108-1118	10	49
146	Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes. <i>Global Change Biology</i> , 2011 , 17, 3102-3114	11.4	49
145	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, 359-368	5.8	47
144	Nitrogen regulation of the climate-carbon feedback: evidence from a long-term global change experiment. <i>Ecology</i> , 2010 , 91, 3261-73	4.6	47
143	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	5.6	47
142	Nonlinear responses of land ecosystems to variation in precipitation. <i>New Phytologist</i> , 2017 , 214, 5-7	9.8	46
141	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	10.2	46
140	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	1.7	46
139	Global soil acidification impacts on belowground processes. <i>Environmental Research Letters</i> , 2019 , 14, 074003	6.2	44
138	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	5.8	43
137	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	5.8	43
136	Interannual variability of ecosystem carbon exchange: From observation to prediction. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1225-1237	6.1	42

135	Carbon storage in China's terrestrial ecosystems: A synthesis. <i>Scientific Reports</i> , 2018 , 8, 2806	4.9	42
134	Global patterns and controlling factors of soil nitrification rate. <i>Global Change Biology</i> , 2020 , 26, 4147-4157	4.4	41
133	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	5.9	38
132	Soil and vegetation carbon turnover times from tropical to boreal forests. <i>Functional Ecology</i> , 2018 , 32, 71-82	5.6	38
131	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 908-918	10.9	37
130	Limits to growth of forest biomass carbon sink under climate change. <i>Nature Communications</i> , 2018 , 9, 2709	17.4	37
129	Warming Effects on Ecosystem Carbon Fluxes Are Modulated by Plant Functional Types. <i>Ecosystems</i> , 2017 , 20, 515-526	3.9	37
128	Experimental warming and clipping altered litter carbon and nitrogen dynamics in a tallgrass prairie. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 138, 206-213	5.7	37
127	Light-intensity grazing improves alpine meadow productivity and adaption to climate change on the Tibetan Plateau. <i>Scientific Reports</i> , 2015 , 5, 15949	4.9	36
126	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. <i>Agricultural and Forest Meteorology</i> , 2015 , 205, 11-22	5.8	36
125	Effects of grazing regimes on plant traits and soil nutrients in an alpine steppe, Northern Tibetan Plateau. <i>PLoS ONE</i> , 2014 , 9, e108821	3.7	36
124	Maximum carbon uptake rate dominates the interannual variability of global net ecosystem exchange. <i>Global Change Biology</i> , 2019 , 25, 3381-3394	11.4	34
123	Photosynthetic responses of C3 and C4 species to seasonal water variability and competition. <i>Journal of Experimental Botany</i> , 2005 , 56, 2867-76	7	34
122	Soil carbon fractions in grasslands respond differently to various levels of nitrogen enrichments. <i>Plant and Soil</i> , 2014 , 384, 401-412	4.2	32
121	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, 1431-9	7	31
120	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, 1857-66	11.4	30
119	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	11.4	30
118	What have we learned from global change manipulative experiments in China? A meta-analysis. <i>Scientific Reports</i> , 2015 , 5, 12344	4.9	29

117	Recovery time and state change of terrestrial carbon cycle after disturbance. <i>Environmental Research Letters</i> , 2017 , 12, 104004	6.2	29
116	Long-term experimental warming decreased labile soil organic carbon in a tallgrass prairie. <i>Plant and Soil</i> , 2012 , 361, 307-315	4.2	29
115	Contrasting responses of phosphatase kinetic parameters to nitrogen and phosphorus additions in forest soils. <i>Functional Ecology</i> , 2018 , 32, 106-116	5.6	28
114	Size-dependent nutrient limitation of tree growth from subtropical to cold temperate forests. <i>Functional Ecology</i> , 2018 , 32, 95-105	5.6	27
113	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	10.2	27
112	Global meta-analysis on the responses of soil extracellular enzyme activities to warming. <i>Science of the Total Environment</i> , 2020 , 705, 135992	10.2	27
111	Plant functional groups regulate soil respiration responses to nitrogen addition and mowing over a decade. <i>Functional Ecology</i> , 2018 , 32, 1117-1127	5.6	26
110	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	2.5	26
109	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	3.7	25
108	Plant nitrogen dynamics and nitrogen-use strategies under altered nitrogen seasonality and competition. <i>Annals of Botany</i> , 2007 , 100, 821-30	4.1	25
107	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	2.2	25
106	Heavy grazing reduces grassland soil greenhouse gas fluxes: A global meta-analysis. <i>Science of the Total Environment</i> , 2019 , 654, 1218-1224	10.2	25
105	Shifting Impacts of Climate Change: Long-Term Patterns of Plant Response to Elevated CO ₂ , Drought, and Warming Across Ecosystems. <i>Advances in Ecological Research</i> , 2016 , 55, 437-473	4.6	24
104	Initial shifts in nitrogen impact on ecosystem carbon fluxes in an alpine meadow: patterns and causes. <i>Biogeosciences</i> , 2017 , 14, 3947-3956	4.6	23
103	Thermal adaptation of net ecosystem exchange. <i>Biogeosciences</i> , 2011 , 8, 1453-1463	4.6	23
102	FLUXNET-CH ₄ : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021 , 13, 3607-3689	10.5	23
101	Long term trend and interannual variability of land carbon uptake—the attribution and processes. <i>Environmental Research Letters</i> , 2017 , 12, 014018	6.2	22
100	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	5.6	22

99	Soil gross N ammonification and nitrification from tropical to temperate forests in eastern China. <i>Functional Ecology</i> , 2018 , 32, 83-94	5.6	22
98	Vegetation type controls root turnover in global grasslands. <i>Global Ecology and Biogeography</i> , 2019 , 28, 442-455	6.1	21
97	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	5.9	21
96	Gene-informed decomposition model predicts lower soil carbon loss due to persistent microbial adaptation to warming. <i>Nature Communications</i> , 2020 , 11, 4897	17.4	21
95	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	5.8	21
94	Differential responses of ecosystem carbon flux components to experimental precipitation gradient in an alpine meadow. <i>Functional Ecology</i> , 2019 , 33, 889-900	5.6	20
93	Gas Exchange, Photochemical Efficiency, and Leaf Water Potential in Three <i>Salix</i> Species. <i>Photosynthetica</i> , 2003 , 41, 393-398	2.2	20
92	When does extreme drought elicit extreme ecological responses?. <i>Journal of Ecology</i> , 2019 , 107, 2553-2563	5.6	19
91	Net primary productivity and its partitioning in response to precipitation gradient in an alpine meadow. <i>Scientific Reports</i> , 2017 , 7, 15193	4.9	19
90	Ecophysiological acclimation to different soil moistures in plants from a semi-arid sandland. <i>Journal of Arid Environments</i> , 2005 , 63, 353-365	2.5	18
89	Diurnal Gas Exchange and Superior Resources Use Efficiency of Typical C4 Species in Hunshandak Sandland, China. <i>Photosynthetica</i> , 2003 , 41, 221-226	2.2	18
88	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	2.6	17
87	Nitrogen deposition differentially affects soil gross nitrogen transformations in organic and mineral horizons. <i>Earth-Science Reviews</i> , 2020 , 201, 103033	10.2	17
86	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> , 2016 , 68, 30575	3.3	16
85	The Global-DEP conceptual framework [Research on dryland ecosystems to promote sustainability. <i>Current Opinion in Environmental Sustainability</i> , 2021 , 48, 17-28	7.2	16
84	Research challenges and opportunities for using big data in global change biology. <i>Global Change Biology</i> , 2020 , 26, 6040-6061	11.4	15
83	Different responses of soil organic carbon fractions to additions of nitrogen. <i>European Journal of Soil Science</i> , 2018 , 69, 1098-1104	3.4	14
82	Comparison of Photosynthetic Traits Between Two Typical Shrubs: Legume and Non-Legume in Hunshandak Sandland. <i>Photosynthetica</i> , 2003 , 41, 111-116	2.2	14

81	Gas Exchange and Water Use Efficiency of Three Native Tree Species in Hunshandak Sandland of China. <i>Photosynthetica</i> , 2003 , 41, 227-232	2.2	14
80	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	4.4	13
79	Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. <i>Journal of Plant Ecology</i> , 2014 , 7, 419-428	1.7	13
78	Species-specific response of photosynthesis to burning and nitrogen fertilization. <i>Journal of Integrative Plant Biology</i> , 2008 , 50, 565-74	8.3	13
77	Traits of Chlorophyll Fluorescence in 99 Plant Species from the Sparse-Elm Grassland in Hunshandak Sandland. <i>Photosynthetica</i> , 2004 , 42, 243-249	2.2	13
76	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	10.2	13
75	Divergent responses of ecosystem respiration components to livestock exclusion on the Qinghai Tibetan Plateau. <i>Land Degradation and Development</i> , 2018 , 29, 1726-1737	4.4	12
74	Diversity-decomposition relationships in forests worldwide. <i>ELife</i> , 2020 , 9,	8.9	12
73	Vital roles of soil microbes in driving terrestrial nitrogen immobilization. <i>Global Change Biology</i> , 2021 , 27, 1848-1858	11.4	12
72	Crowther et al. reply. <i>Nature</i> , 2018 , 554, E7-E8	50.4	11
71	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	5.9	11
70	Control of sandstorms in Inner Mongolia, China. <i>Environmental Conservation</i> , 2004 , 31, 269-273	3.3	11
69	Fine-root functional trait responses to experimental warming: a global meta-analysis. <i>New Phytologist</i> , 2021 , 230, 1856-1867	9.8	11
68	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	2.9	10
67	Global variations and controlling factors of soil nitrogen turnover rate. <i>Earth-Science Reviews</i> , 2020 , 207, 103250	10.2	10
66	The stoichiometry of soil microbial biomass determines metabolic quotient of nitrogen mineralization. <i>Environmental Research Letters</i> , 2020 , 15, 034005	6.2	10
65	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	3.7	10
64	A sand-fixing pioneer C3 species in sandland displays characteristics of C4 metabolism. <i>Environmental and Experimental Botany</i> , 2006 , 57, 123-130	5.9	10

63	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	5	10
62	Toward a sustainable grazing management based on biodiversity and ecosystem multifunctionality in drylands. <i>Current Opinion in Environmental Sustainability</i> , 2021 , 48, 36-43	7.2	10
61	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	3.8	9
60	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality.. <i>Science China Life Sciences</i> , 2022 , 1	8.5	9
59	Effects of mowing on methane uptake in a semiarid grassland in northern China. <i>PLoS ONE</i> , 2012 , 7, e35952	3.52	9
58	Plants with lengthened phenophases increase their dominance under warming in an alpine plant community. <i>Science of the Total Environment</i> , 2020 , 728, 138891	10.2	8
57	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	2.2	8
56	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	10.2	8
55	Common Species Stability and Species Asynchrony Rather than Richness Determine Ecosystem Stability Under Nitrogen Enrichment. <i>Ecosystems</i> , 2021 , 24, 686-698	3.9	8
54	Divergent biomass partitioning to aboveground and belowground across forests in China. <i>Journal of Plant Ecology</i> , 2018 , 11, 484-492	1.7	7
53	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	8.3	7
52	Potentials for combating desertification in Hunshandak Sandland through nature reserve. <i>Environmental Management</i> , 2005 , 35, 453-60	3.1	7
51	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	4.2	7
50	Widespread asymmetric response of soil heterotrophic respiration to warming and cooling. <i>Science of the Total Environment</i> , 2018 , 635, 423-431	10.2	7
49	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	3.7	6
48	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	3.1	6
47	Integrative ecology in the era of big data—from observation to prediction. <i>Science China Earth Sciences</i> , 2020 , 63, 1429-1442	4.6	6
46	Discrepant responses between evapotranspiration- and transpiration-based ecosystem water use efficiency to interannual precipitation fluctuations. <i>Agricultural and Forest Meteorology</i> , 2021 , 303, 108385	5.8	6

45	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	5.8	5
44	Moving toward a new era of ecosystem science. <i>Geography and Sustainability</i> , 2021 , 2, 151-162	7.3	5
43	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	3.7	4
42	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	1.9	4
41	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	2.2	4
40	Shifting biomass allocation determines community water use efficiency under climate warming. <i>Environmental Research Letters</i> , 2020 , 15, 094041	6.2	4
39	Increased CO emissions surpass reductions of non-CO emissions more under higher experimental warming in an alpine meadow. <i>Science of the Total Environment</i> , 2021 , 769, 144559	10.2	4
38	Microaggregates regulated by edaphic properties determine the soil carbon stock in Tibetan alpine grasslands. <i>Catena</i> , 2021 , 206, 105570	5.8	4
37	Tree mortality in a warming world: causes, patterns, and implications. <i>Environmental Research Letters</i> , 2022 , 17, 030201	6.2	4
36	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	5.8	3
35	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	2.2	3
34	Variations and controlling factors of soil denitrification rate.. <i>Global Change Biology</i> , 2021 ,	11.4	3
33	Global Soil Gross Nitrogen Transformation Under Increasing Nitrogen Deposition. <i>Global Biogeochemical Cycles</i> , 2021 , 35,	5.9	3
32	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	5.8	3
31	Drought shrinks terrestrial upland resilience to climate change. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1840-1851	6.1	3
30	Divergent responses of primary production to increasing precipitation variability in global drylands. <i>Global Change Biology</i> , 2021 , 27, 5225-5237	11.4	3
29	A global synthesis reveals increases in soil greenhouse gas emissions under forest thinning. <i>Science of the Total Environment</i> , 2022 , 804, 150225	10.2	3
28	High-level rather than low-level warming destabilizes plant community biomass production. <i>Journal of Ecology</i> , 2021 , 109, 1607-1617	6	3

27	Hysteretic relationship between plant productivity and methane uptake in an alpine meadow. <i>Agricultural and Forest Meteorology</i> , 2020 , 288-289, 107982	5.8	2
26	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	7.5	2
25	Spatial variations in terrestrial net ecosystem productivity and its local indicators. <i>Biogeosciences</i> , 2020 , 17, 6237-6246	4.6	2
24	Temperature Sensitivity of Canopy Photosynthesis Phenology in Northern Ecosystems 2013 , 503-519		2
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