Xingguo Han

List of Publications by Year
in descending order

314 papers	19,155 citations	11651 70 h-index	19190 118 g-index
319 all docs	319 docs citations	319 times ranked	13768 citing authors

#	Article	IF	Citations
1	Ecosystem stability and compensatory effects in the Inner Mongolia grassland. Nature, 2004, 431, 181-184.	27.8	1,011
2	Tradeoffs and thresholds in the effects of nitrogen addition on biodiversity and ecosystem functioning: evidence from inner Mongolia Grasslands. Global Change Biology, 2010, 16, 358-372.	9.5	680
3	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
4	PRIMARY PRODUCTION AND RAIN USE EFFICIENCY ACROSS A PRECIPITATION GRADIENT ON THE MONGOLIA PLATEAU. Ecology, 2008, 89, 2140-2153.	3.2	593
5	Grassland ecosystems in China: review of current knowledge and research advancement. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 997-1008.	4.0	489
6	ECOLOGY: Three-Gorges Dam--Experiment in Habitat Fragmentation?. Science, 2003, 300, 1239-1240.	12.6	332
7	The Three Gorges Dam: an ecological perspective. Frontiers in Ecology and the Environment, 2004, 2, 241-248.	4.0	295
8	Temperature and soil moisture interactively affected soil net N mineralization in temperate grassland in Northern China. Soil Biology and Biochemistry, 2006, 38, 1101-1110.	8.8	271
9	Linking stoichiometric homoeostasis with ecosystem structure, functioning and stability. Ecology Letters, 2010, 13, 1390-1399.	6.4	271
10	Grazing alters ecosystem functioning and <scp>C</scp>:<scp>N</scp>:<scp>P</scp> stoichiometry of grasslands along a regional precipitation gradient. Journal of Applied Ecology, 2012, 49, 1204-1215.	4.0	271
11	Grazing-induced reduction of natural nitrous oxide release from continental steppe. Nature, 2010, 464, 881-884.	27.8	254
12	Aridity threshold in controlling ecosystem nitrogen cycling in arid and semi-arid grasslands. Nature Communications, 2014, 5, 4799.	12.8	254
13	Nitrogen deposition weakens plantâ€“microbe interactions in grassland ecosystems. Global Change Biology, 2013, 19, 3688-3697.	9.5	221
14	Habitat-specific patterns and drivers of bacterial Î²-diversity in Chinaâ€™s drylands. ISME Journal, 2017, 11, 1345-1358.	9.8	218
15	Positive linear relationship between productivity and diversity: evidence from the Eurasian Steppe. Journal of Applied Ecology, 2007, 44, 1023-1034.	4.0	217
16	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.	9.5	179
17	Stoichiometric homeostasis of vascular plants in the Inner Mongolia grassland. Oecologia, 2011, 166, 1-10.	2.0	171
18	Convergent responses of nitrogen and phosphorus resorption to nitrogen inputs in a semiarid grassland. Global Change Biology, 2013, 19, 2775-2784.	9.5	171

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19	A novel soil manganese mechanism drives plant species loss with increased nitrogen deposition in a temperate steppe. Ecology, 2016, 97, 65-74.	3.2	165
20	The ameliorative effect of silicon on soybean seedlings grown in potassium-deficient medium. Annals of Botany, 2010, 105, 967-973.	2.9	155
21	Carbon and nitrogen store and storage potential as affected by land-use in a Leymus chinensis grassland of northern China. Soil Biology and Biochemistry, 2008, 40, 2952-2959.	8.8	153
22	Higher precipitation strengthens the microbial interactions in semiâ€arid grassland soils. Global Ecology and Biogeography, 2018, 27, 570-580.	5.8	151
23	Restoration and Management of the Inner Mongolia Grassland Require a Sustainable Strategy. Ambio, 2006, 35, 269-270.	5.5	150
24	Genotypic differences in leaf biochemical, physiological and growth responses to ozone in 20 winter wheat cultivars released over the past 60 years. Global Change Biology, 2008, 14, 46-59.	9.5	149
25	Environmental changes drive the temporal stability of semiâ€arid natural grasslands through altering species asynchrony. Journal of Ecology, 2015, 103, 1308-1316.	4.0	143
26	Global change effects on plant communities are magnified by time and the number of global change factors imposed. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17867-17873.	7.1	141
27	Comparing physiological responses of two dominant grass species to nitrogen addition in Xilin River Basin of China. Environmental and Experimental Botany, 2005, 53, 65-75.	4.2	140
28	Ecosystem Traits Linking Functional Traits to Macroecology. Trends in Ecology and Evolution, 2019, 34, 200-210.	8.7	140
29	Nitrogen enrichment weakens ecosystem stability through decreased species asynchrony and population stability in a temperate grassland. Global Change Biology, 2016, 22, 1445-1455.	9.5	139
30	Energy balance and partition in Inner Mongolia steppe ecosystems with different land use types. Agricultural and Forest Meteorology, 2009, 149, 1800-1809.	4.8	138
31	Rapid plant species loss at high rates and at low frequency of N addition in temperate steppe. Global Change Biology, 2014, 20, 3520-3529.	9.5	132
32	Soil carbon and nitrogen stores and storage potential as affected by land-use in an agro-pastoral ecotone of northern China. Biogeochemistry, 2007, 82, 127-138.	3.5	125
33	Non-Additive Effects of Water and Nitrogen Addition on Ecosystem Carbon Exchange in a Temperate Steppe. Ecosystems, 2009, 12, 915-926.	3.4	125
34	Nitrogen and water availability interact to affect leaf stoichiometry in a semi-arid grassland. Oecologia, 2012, 168, 301-310.	2.0	109
35	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. Trends in Ecology and Evolution, 2020, 35, 908-918.	8.7	107
36	Strategies to alleviate poverty and grassland degradation in Inner Mongolia: Intensification vs production efficiency of livestock systems. Journal of Environmental Management, 2015, 152, 177-182.	7.8	106

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37	Stoichiometric homeostasis predicts plant species dominance, temporal stability, and responses to global change. Ecology, 2015, 96, 2328-2335.	3.2	106
38	Nitrogen response efficiency increased monotonically with decreasing soil resource availability: a case study from a semiarid grassland in northern China. Oecologia, 2006, 148, 564-572.	2.0	105
39	N balance and cycling of Inner Mongolia typical steppe: a comprehensive case study of grazing effects. Ecological Monographs, 2013, 83, 195-219.	5.4	105
40	Nutrient resorption responses to water and nitrogen amendment in semi-arid grassland of Inner Mongolia, China. Plant and Soil, 2010, 327, 481-491.	3.7	104
41	Annual methane uptake by temperate semiarid steppes as regulated by stocking rates, aboveground plant biomass and topsoil air permeability. Global Change Biology, 2011, 17, 2803-2816.	9.5	103
42	Differential responses of litter decomposition to increased soil nutrients and water between two contrasting grassland plant species of Inner Mongolia, China. Applied Soil Ecology, 2006, 34, 266-275.	4.3	100
43	Litter decomposition and nutrient release as affected by soil nitrogen availability and litter quality in a semiarid grassland ecosystem. Oecologia, 2010, 162, 771-780.	2.0	98
44	Do rhizome severing and shoot defoliation affect clonal growth of Leymus chinensis at ramet population level?. Acta Oecologica, 2004, 26, 255-260.	1.1	94
45	Plasticity in leaf and stem nutrient resorption proficiency potentially reinforces plantâ€“soil feedbacks and microscale heterogeneity in a semiâ€arid grassland. Journal of Ecology, 2012, 100, 144-150.	4.0	94
46	Aerobic Methane Emission from Plants in the Inner Mongolia Steppe. Environmental Science & Technology, 2008, 42, 62-68.	10.0	92
47	Nitrogen resorption from senescing leaves in 28 plant species in a semi-arid region of northern China. Journal of Arid Environments, 2005, 63, 191-202.	2.4	90
48	Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. Atmospheric Environment, 2007, 41, 5948-5958.	4.1	88
49	The counteractive effects of nitrogen addition and watering on soil bacterial communities in a steppe ecosystem. Soil Biology and Biochemistry, 2014, 72, 26-34.	8.8	88
50	Scale-dependent effects of climate and geographic distance on bacterial diversity patterns across northern China's grasslands. FEMS Microbiology Ecology, 2015, 91, fiv133.	2.7	87
51	Environmental changes affect the assembly of soil bacterial community primarily by mediating stochastic processes. Global Change Biology, 2016, 22, 198-207.	9.5	87
52	Exacerbated nitrogen limitation ends transient stimulation of grassland productivity by increased precipitation. Ecological Monographs, 2017, 87, 457-469.	5.4	87
53	Responses of Soil Bacterial Communities to Nitrogen Deposition and Precipitation Increment Are Closely Linked with Aboveground Community Variation. Microbial Ecology, 2016, 71, 974-989.	2.8	86
54	Chinaâ€™s new rural â€œseparating three property rightsâ€• land reform results in grassland degradation: Evidence from Inner Mongolia. Land Use Policy, 2018, 71, 170-182.	5.6	86

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55	Plants alter their vertical root distribution rather than biomass allocation in response to changing precipitation. Ecology, 2019, 100, e02828.	3.2	86
56	Complementarity in water sources among dominant species in typical steppe ecosystems of Inner Mongolia, China. Plant and Soil, 2011, 340, 303-313.	3.7	84
57	Asymmetric sensitivity of ecosystem carbon and water processes in response to precipitation change in a semiâ€arid steppe. Functional Ecology, 2017, 31, 1301-1311.	3.6	84
58	Response of the Abundance of Key Soil Microbial Nitrogen-Cycling Genes to Multi-Factorial Global Changes. PLoS ONE, 2013, 8, e76500.	2.5	83
59	Predicting plant diversity based on remote sensing products in the semi-arid region of Inner Mongolia. Remote Sensing of Environment, 2008, 112, 2018-2032.	11.0	80
60	Mitigating methane emission from paddy soil with rice-straw biochar amendment under projected climate change. Scientific Reports, 2016, 6, 24731.	3.3	79
61	Respiratory substrate availability plays a crucial role in the response of soil respiration to environmental factors. Applied Soil Ecology, 2006, 32, 284-292.	4.3	78
62	N2O emission from the semi-arid ecosystem under mineral fertilizer (urea and superphosphate) and increased precipitation in northern China. Atmospheric Environment, 2008, 42, 291-302.	4.1	78
63	Changes in carbon and nitrogen in soil particle-size fractions along a grassland restoration chronosequence in northern China. Geoderma, 2009, 150, 302-308.	5.1	78
64	Methane emissions from the trunks of living trees on upland soils. New Phytologist, 2016, 211, 429-439.	7.3	78
65	Effects of longâ€term grazing on the morphological and functional traits of <i>Leymus chinensis</i> in the semiarid grassland of Inner Mongolia, China. Ecological Research, 2009, 24, 99-108.	1.5	77
66	Changes in litter quality induced by N deposition alter soil microbial communities. Soil Biology and Biochemistry, 2019, 130, 33-42.	8.8	77
67	Nitrogen Addition Regulates Soil Nematode Community Composition through Ammonium Suppression. PLoS ONE, 2012, 7, e43384.	2.5	77
68	Biophysical regulations of carbon fluxes of a steppe and a cultivated cropland in semiarid Inner Mongolia. Agricultural and Forest Meteorology, 2007, 146, 216-229.	4.8	75
69	Mechanisms of soil acidification reducing bacterial diversity. Soil Biology and Biochemistry, 2015, 81, 275-281.	8.8	75
70	Nonlinear responses of ecosystem carbon fluxes and waterâ€use efficiency to nitrogen addition in Inner Mongolia grassland. Functional Ecology, 2016, 30, 490-499.	3.6	75
71	Responses of soil microbial functional genes to global changes are indirectly influenced by aboveground plant biomass variation. Soil Biology and Biochemistry, 2017, 104, 18-29.	8.8	75
72	Nitrogen addition does not reduce the role of spatial asynchrony in stabilising grassland communities. Ecology Letters, 2019, 22, 563-571.	6.4	75

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73	Climate variability decreases species richness and community stability in a temperate grassland. Oecologia, 2018, 188, 183-192.	2.0	74
74	Land use affects the relationship between species diversity and productivity at the local scale in a semi-arid steppe ecosystem. Functional Ecology, 2006, 20, 753-762.	3.6	73
75	Cultivation and grazing altered evapotranspiration and dynamics in Inner Mongolia steppes. Agricultural and Forest Meteorology, 2009, 149, 1810-1819.	4.8	73
76	Plant nitrogen uptake drives responses of productivity to nitrogen and water addition in a grassland. Scientific Reports, 2014, 4, 4817.	3.3	71
77	Mowing exacerbates the loss of ecosystem stability under nitrogen enrichment in a temperate grassland. Functional Ecology, 2017, 31, 1637-1646.	3.6	71
78	Microbial N Turnover and N-Oxide (N2O/NO/NO2) Fluxes in Semi-arid Grassland of Inner Mongolia. Ecosystems, 2007, 10, 623-634.	3.4	67
79	Soil characteristics and nitrogen resorption in Stipa krylovii native to northern China. Plant and Soil, 2005, 273, 257-268.	3.7	66
80	Seasonal variations in nitrogen mineralization under three land use types in a grassland landscape. Acta Oecologica, 2008, 34, 322-330.	1.1	65
81	On the Nature of Environmental Gradients: Temporal and Spatial Variability of Soils and Vegetation in the New Jersey Pinelands. Journal of Ecology, 1997, 85, 785.	4.0	64
82	Diurnal variation in methane emissions in relation to plants and environmental variables in the Inner Mongolia marshes. Atmospheric Environment, 2005, 39, 6295-6305.	4.1	64
83	Poplar plantation has the potential to alter the water balance in semiarid Inner Mongolia. Journal of Environmental Management, 2009, 90, 2762-2770.	7.8	64
84	Effects of Water and Nitrogen Addition on Species Turnover in Temperate Grasslands in Northern China. PLoS ONE, 2012, 7, e39762.	2.5	64
85	Asymmetry in aboveâ€•and belowground productivity responses to N addition in a semiâ€arid temperate steppe. Global Change Biology, 2019, 25, 2958-2969.	9.5	63
86	Nonadditive effects of litter mixtures on decomposition and correlation with initial litter N and P concentrations in grassland plant species of northern China. Biology and Fertility of Soils, 2007, 44, 211-216.	4.3	62
87	Plant nutrients do not covary with soil nutrients under changing climatic conditions. Global Biogeochemical Cycles, 2015, 29, 1298-1308.	4.9	62
88	Hierarchical responses of plant stoichiometry to nitrogen deposition and mowing in a temperate steppe. Plant and Soil, 2014, 382, 175-187.	3.7	61
89	Plant functional diversity modulates global environmental change effects on grassland productivity. Journal of Ecology, 2018, 106, 1941-1951.	4.0	61
90	Differential responses of canopy nutrients to experimental drought along a natural aridity gradient. Ecology, 2018, 99, 2230-2239.	3.2	61

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91	Effects of grassland conversion to croplands on soil organic carbon in the temperate Inner Mongolia. Journal of Environmental Management, 2008, 86, 529-534.	7.8	59
92	Temporal and spatial variability and controls of soil respiration in a temperate steppe in northern China. Global Biogeochemical Cycles, 2010, 24, .	4.9	59
93	Effects of plant functional group loss on soil biota and net ecosystem exchange: a plant removal experiment in the Mongolian grassland. Journal of Ecology, 2016, 104, 734-743.	4.0	58
94	Feedback of grazing on gross rates of N mineralization and inorganic N partitioning in steppe soils of Inner Mongolia. Plant and Soil, 2011, 340, 127-139.	3.7	57
95	LIVE AND DEAD ROOTS IN FOREST SOIL HORIZONS:CONTRASTING EFFECTS ON NITROGEN DYNAMICS. Ecology, 1997, 78, 348-362.	3.2	56
96	Grazing intensity impacts soil carbon and nitrogen storage of continental steppe. Ecosphere, 2011, 2, art8.	2.2	56
97	Sampling Date, Leaf Age and Root Size: Implications for the Study of Plant C:N:P Stoichiometry. PLoS ONE, 2013, 8, e60360.	2.5	56
98	Effects of functional diversity loss on ecosystem functions are influenced by compensation. Ecology, 2016, 97, 2293-2302.	3.2	56
99	Effects of grazing and climate variability on grassland ecosystem functions in Inner Mongolia: Synthesis of a 6-year grazing experiment. Journal of Arid Environments, 2016, 135, 50-63.	2.4	56
100	Topography and grazing effects on storage of soil organic carbon and nitrogen in the northern China grasslands. Ecological Indicators, 2018, 93, 45-53.	6.3	56
101	Changing precipitation exerts greater influence on soil heterotrophic than autotrophic respiration in a semiarid steppe. Agricultural and Forest Meteorology, 2019, 271, 413-421.	4.8	56
102	Nitrogen fertilization and fire act independently on foliar stoichiometry in a temperate steppe. Plant and Soil, 2010, 334, 209-219.	3.7	55
103	Foliar nutrient resorption differs between arbuscular mycorrhizal and ectomycorrhizal trees at local and global scales. Global Ecology and Biogeography, 2018, 27, 875-885.	5.8	55
104	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. Global Change Biology, 2021, 27, 5976-5988.	9.5	55
105	Testing the Growth Rate Hypothesis in Vascular Plants with Above- and Below-Ground Biomass. PLoS ONE, 2012, 7, e32162.	2.5	55
106	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink. Nature Communications, 2022, 13, 880.	12.8	55
107	Increase in ammonia volatilization from soil in response to N deposition in Inner Mongolia grasslands. Atmospheric Environment, 2014, 84, 156-162.	4.1	54
108	Increasing rates of longâ€term nitrogen deposition consistently increased litter decomposition in a semiâ€arid grassland. New Phytologist, 2021, 229, 296-307.	7.3	54

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109	Changes in specific leaf area of dominant plants in temperate grasslands along a 2500-km transect in northern China. Scientific Reports, 2017, 7, 10780.	3.3	53
110	Storage and Dynamics of Carbon and Nitrogen in Soil after Grazing Exclusion in <i>Leymus chinensis</i> Grasslands of Northern China. Journal of Environmental Quality, 2008, 37, 663-668.	2.0	52
111	Changes in carbon and nitrogen of Chernozem soil along a cultivation chronosequence in a semiâ€arid grassland. European Journal of Soil Science, 2009, 60, 916-923.	3.9	52
112	Climate and ecosystem ¹⁵N natural abundance along a transect of Inner Mongolian grasslands: Contrasting regional patterns and global patterns. Global Biogeochemical Cycles, 2009, 23, .	4.9	52
113	Effects of experimentally-enhanced precipitation and nitrogen on resistance, recovery and resilience of a semi-arid grassland after drought. Oecologia, 2014, 176, 1187-1197.	2.0	52
114	Nitrogen deposition alters soil chemical properties and bacterial communities in the Inner Mongolia grassland. Journal of Environmental Sciences, 2012, 24, 1483-1491.	6.1	51
115	Eutrophication as a driver of microbial community structure in lake sediments. Environmental Microbiology, 2020, 22, 3446-3462.	3.8	51
116	Labile organic C and N mineralization of soil aggregate size classes in semiarid grasslands as affected by grazing management. Biology and Fertility of Soils, 2012, 48, 305-313.	4.3	50
117	Soil organic and inorganic carbon contents under various land uses across a transect of continental steppes in Inner Mongolia. Catena, 2013, 109, 110-117.	5.0	50
118	Salt tolerance during seed germination and early seedling stages of 12 halophytes. Plant and Soil, 2015, 388, 229-241.	3.7	50
119	Nutrient resorption helps drive intra-specific coupling of foliar nitrogen and phosphorus under nutrient-enriched conditions. Plant and Soil, 2016, 398, 111-120.	3.7	50
120	Physical injury stimulates aerobic methane emissions from terrestrial plants. Biogeosciences, 2009, 6, 615-621.	3.3	49
121	Effects of prescribed burning and seasonal and interannual climate variation on nitrogen mineralization in a typical steppe in Inner Mongolia. Soil Biology and Biochemistry, 2009, 41, 796-803.	8.8	49
122	Contrasting responses in leaf nutrient-use strategies of two dominant grass species along a 30-yr temperate steppe grazing exclusion chronosequence. Plant and Soil, 2015, 387, 69-79.	3.7	49
123	Methane Production Explained Largely by Water Content in the Heartwood of Living Trees in Upland Forests. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2479-2489.	3.0	49
124	Soil Bacterial Communities Respond to Mowing and Nutrient Addition in a Steppe Ecosystem. PLoS ONE, 2013, 8, e84210.	2.5	49
125	Widespread non-microbial methane production by organic compounds and the impact of environmental stresses. Earth-Science Reviews, 2013, 127, 193-202.	9.1	48
126	Effects of nitrogen deposition rates and frequencies on the abundance of soil nitrogen-related functional genes in temperate grassland of northern China. Journal of Soils and Sediments, 2015, 15, 694-704.	3.0	48

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127	Productivity depends more on the rate than the frequency of N addition in a temperate grassland. Scientific Reports, 2015, 5, 12558.	3.3	47
128	Experimental warming reveals positive feedbacks to climate change in the Eurasian Steppe. ISME Journal, 2017, 11, 885-895.	9.8	47
129	Variation in small-scale spatial heterogeneity of soil properties and vegetation with different land use in semiarid grassland ecosystem. Plant and Soil, 2008, 310, 103-112.	3.7	46
130	Patterns of Plant Biomass Allocation in Temperate Grasslands across a 2500-km Transect in Northern China. PLoS ONE, 2013, 8, e71749.	2.5	46
131	Mitigation of nitrous oxide emissions from acidic soils by <i>Bacillus amyloliquefaciens</i>, a plant growthâ€promoting bacterium. Global Change Biology, 2018, 24, 2352-2365.	9.5	46
132	Effects of grazing on photosynthetic characteristics of major steppe species in the Xilin River Basin, Inner Mongolia, China. Photosynthetica, 2005, 43, 559-565.	1.7	45
133	Decreased plant productivity resulting from plant group removal experiment constrains soil microbial functional diversity. Global Change Biology, 2017, 23, 4318-4332.	9.5	45
134	Nitrogen and water addition reduce leaf longevity of steppe species. Annals of Botany, 2011, 107, 145-155.	2.9	44
135	Grazing Density Effects on Cover, Species Composition, and Nitrogen Fixation of Biological Soil Crust in an Inner Mongolia Steppe. Rangeland Ecology and Management, 2009, 62, 321-327.	2.3	43
136	Soil phosphorus fractions, aluminum, and water retention as affected by microbial activity in an Ultisol. Plant and Soil, 1990, 121, 125-136.	3.7	42
137	The Influence of Historical Land Use and Water Availability on Grassland Restoration. Restoration Ecology, 2010, 18, 217-225.	2.9	42
138	Species asynchrony stabilises productivity under extreme drought across Northern China grasslands. Journal of Ecology, 2021, 109, 1665-1675.	4.0	42
139	Nitrogen deposition promotes phosphorus uptake of plants in a semi-arid temperate grassland. Plant and Soil, 2016, 408, 475-484.	3.7	41
140	Carbon and nitrogen allocation shifts in plants and soils along aridity and fertility gradients in grasslands of China. Ecology and Evolution, 2017, 7, 6927-6934.	1.9	41
141	Plant responses following grazing removal at different stocking rates in an Inner Mongolia grassland ecosystem. Plant and Soil, 2011, 340, 199-213.	3.7	40
142	Warming and increased precipitation individually influence soil carbon sequestration of Inner Mongolian grasslands, China. Agriculture, Ecosystems and Environment, 2012, 158, 184-191.	5.3	40
143	Contrasting pH buffering patterns in neutral-alkaline soils along a 3600 km transect in northern China. Biogeosciences, 2015, 12, 7047-7056.	3.3	40
144	Variations in life-form composition and foliar carbon isotope discrimination among eight plant communities under different soil moisture conditions in the Xilin River Basin, Inner Mongolia, China. Ecological Research, 2005, 20, 167-176.	1.5	39

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145	Importance of point sources on regional nitrous oxide fluxes in semi-arid steppe of Inner Mongolia, China. Plant and Soil, 2007, 296, 209-226.	3.7	39
146	Divergent Changes in Plant Community Composition under 3-Decade Grazing Exclusion in Continental Steppe. PLoS ONE, 2011, 6, e26506.	2.5	39
147	Nutrient resorption response to fire and nitrogen addition in a semi-arid grassland. Ecological Engineering, 2011, 37, 534-538.	3.6	39
148	Effect of nitrogen fertilization on net nitrogen mineralization in a grassland soil, northern China. Grass and Forage Science, 2012, 67, 219-230.	2.9	39
149	Increased precipitation induces a positive plant-soil feedback in a semi-arid grassland. Plant and Soil, 2015, 389, 211-223.	3.7	39
150	Lack of Evidence for 3/4 Scaling of Metabolism in Terrestrial Plants. Journal of Integrative Plant Biology, 2005, 47, 1173-1183.	8.5	38
151	Quantitative assessment of bioenergy from crop stalk resources in Inner Mongolia, China. Applied Energy, 2012, 93, 305-318.	10.1	38
152	Soil gross N ammonification and nitrification from tropical to temperate forests in eastern China. Functional Ecology, 2018, 32, 83-94.	3.6	38
153	Arbuscular mycorrhizal fungi regulate soil respiration and its response to precipitation change in a semiarid steppe. Scientific Reports, 2016, 6, 19990.	3.3	37
154	Homeâ€field advantages of litter decomposition increase with increasing N deposition rates: a litter and soil perspective. Functional Ecology, 2017, 31, 1792-1801.	3.6	36
155	Nonlinear responses of soil nematode community composition to increasing aridity. Global Ecology and Biogeography, 2020, 29, 117-126.	5.8	36
156	Land use and drought interactively affect interspecific competition and species diversity at the local scale in a semiarid steppe ecosystem. Ecological Research, 2009, 24, 627-635.	1.5	35
157	Nitrogen deposition mediates the effects and importance of chance in changing biodiversity. Molecular Ecology, 2011, 20, 429-438.	3.9	35
158	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. Oecologia, 2018, 188, 633-643.	2.0	35
159	Plant traits and soil fertility mediate productivity losses under extreme drought in C₃ grasslands. Ecology, 2021, 102, e03465.	3.2	35
160	Community response of arbuscular mycorrhizal fungi to extreme drought in a coldâ€temperate grassland. New Phytologist, 2022, 234, 2003-2017.	7.3	35
161	Nitrogen enrichment buffers phosphorus limitation by mobilizing mineralâ€bound soil phosphorus in grasslands. Ecology, 2022, 103, e3616.	3.2	35
162	Seasonality of soil microbial nitrogen turnover in continental steppe soils of Inner Mongolia. Ecosphere, 2012, 3, 1-18.	2.2	34

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163	Scale dependence of the diversityâ€“stability relationship in a temperate grassland. Journal of Ecology, 2018, 106, 1277-1285.	4.0	33
164	Effects of irrigation on nitrous oxide, methane and carbon dioxide fluxes in an Inner Mongolian steppe. Advances in Atmospheric Sciences, 2008, 25, 748-756.	4.3	32
165	Plant species effects on soil carbon and nitrogen dynamics in a temperate steppe of northern China. Plant and Soil, 2011, 346, 331-347.	3.7	32
166	Rapid topâ€“down regulation of plant C:N:P stoichiometry by grasshoppers in an Inner Mongolia grassland ecosystem. Oecologia, 2011, 166, 253-264.	2.0	32
167	Intra-seasonal precipitation amount and pattern differentially affect primary production of two dominant species of Inner Mongolia grassland. Acta Oecologica, 2012, 44, 2-10.	1.1	32
168	Experimentally increased water and nitrogen affect root production and vertical allocation of an old-field grassland. Plant and Soil, 2017, 412, 369-380.	3.7	32
169	China's grazed temperate grasslands are a net source of atmospheric methane. Atmospheric Environment, 2009, 43, 2148-2153.	4.1	31
170	The Grasslands of Inner Mongolia: A Special Feature. Rangeland Ecology and Management, 2009, 62, 303-304.	2.3	31
171	Plant carbon limitation does not reduce nitrogen transfer from arbuscular mycorrhizal fungi to Plantago lanceolata. Plant and Soil, 2015, 396, 369-380.	3.7	31
172	Differences in below-ground bud bank density and composition along a climatic gradient in the temperate steppe of northern China. Annals of Botany, 2017, 120, 755-764.	2.9	31
173	Depth profiles of soil carbon isotopes along a semi-arid grassland transect in northern China. Plant and Soil, 2017, 417, 43-52.	3.7	31
174	Long term experimental drought alters community plant trait variation, not trait means, across three semiarid grasslands. Plant and Soil, 2019, 442, 343-353.	3.7	31
175	Foliar Nitrogen Dynamics and Nitrogen Resorption of a Sandy Shrub Salix gordejevii in Northern China. Plant and Soil, 2005, 278, 183-193.	3.7	30
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