Xingguo Han

List of Publications by Year
in descending order

300 papers	18,880 citations	11675 70 h-index	18533 120 g-index
310 all docs	310 docs citations	310 times ranked	16960 citing authors

#	Article	IF	Citations
1	Ecosystem stability and compensatory effects in the Inner Mongolia grassland. Nature, 2004, 431, 181-184.	36.2	1,036
2	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.4	720
3	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.	9.7	704
4	PRIMARY PRODUCTION AND RAIN USE EFFICIENCY ACROSS A PRECIPITATION GRADIENT ON THE MONGOLIA PLATEAU. Ecology, 2008, 89, 2140-2153.	3.5	605
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.	4.2	510
6	ECOLOGY: Three-Gorges Dam--Experiment in Habitat Fragmentation?. Science, 2003, 300, 1239-1240.	20.9	340
7	The Three Gorges Dam: an ecological perspective. Frontiers in Ecology and the Environment, 2004, 2, 241-248.	2.9	300
8	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	292
9	Linking stoichiometric homoeostasis with ecosystem structure, functioning and stability. Ecology Letters, 2010, 13, 1390-1399.	6.7	283
10	Temperature and soil moisture interactively affected soil net N mineralization in temperate grassland in Northern China. Soil Biology and Biochemistry, 2006, 38, 1101-1110.	9.0	280
11	Aridity threshold in controlling ecosystem nitrogen cycling in arid and semi-arid grasslands. Nature Communications, 2014, 5, 4799.	13.2	266
12	Grazing-induced reduction of natural nitrous oxide release from continental steppe. Nature, 2010, 464, 881-884.	36.2	259
13	Habitat-specific patterns and drivers of bacterial Î²-diversity in Chinaâ€™s drylands. ISME Journal, 2017, 11, 1345-1358.	10.0	240
14	Positive linear relationship between productivity and diversity: evidence from the Eurasian Steppe. Journal of Applied Ecology, 2007, 44, 1023-1034.	4.0	229
15	Nitrogen deposition weakens plantâ€“microbe interactions in grassland ecosystems. Global Change Biology, 2013, 19, 3688-3697.	9.7	228
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.	9.7	188
17	Convergent responses of nitrogen and phosphorus resorption to nitrogen inputs in a semiarid grassland. Global Change Biology, 2013, 19, 2775-2784.	9.7	182
18	Stoichiometric homeostasis of vascular plants in the Inner Mongolia grassland. Oecologia, 2011, 166, 1-10.	2.1	180

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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.	3.5	179
20	Higher precipitation strengthens the microbial interactions in semiâ€arid grassland soils. Global Ecology and Biogeography, 2018, 27, 570-580.	5.9	171
21	Ecosystem Traits Linking Functional Traits to Macroecology. Trends in Ecology and Evolution, 2019, 34, 200-210.	8.8	162
22	The ameliorative effect of silicon on soybean seedlings grown in potassium-deficient medium. Annals of Botany, 2010, 105, 967-973.	2.9	157
23	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.	7.6	156
24	Environmental changes drive the temporal stability of semiâ€arid natural grasslands through altering species asynchrony. Journal of Ecology, 2015, 103, 1308-1316.	4.1	155
25	Restoration and Management of the Inner Mongolia Grassland Require a Sustainable Strategy. Ambio, 2006, 35, 269-270.	5.8	153
26	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.	4.3	145
27	Nitrogen enrichment weakens ecosystem stability through decreased species asynchrony and population stability in a temperate grassland. Global Change Biology, 2016, 22, 1445-1455.	9.7	144
28	Energy balance and partition in Inner Mongolia steppe ecosystems with different land use types. Agricultural and Forest Meteorology, 2009, 149, 1800-1809.	4.8	142
29	Rapid plant species loss at high rates and at low frequency of N addition in temperate steppe. Global Change Biology, 2014, 20, 3520-3529.	9.7	138
30	Non-Additive Effects of Water and Nitrogen Addition on Ecosystem Carbon Exchange in a Temperate Steppe. Ecosystems, 2009, 12, 915-926.	3.4	132
31	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. Trends in Ecology and Evolution, 2020, 35, 908-918.	8.8	131
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.	3.7	126
33	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.	7.9	115
34	Nitrogen and water availability interact to affect leaf stoichiometry in a semi-arid grassland. Oecologia, 2012, 168, 301-310.	2.1	111
35	Stoichiometric homeostasis predicts plant species dominance, temporal stability, and responses to global change. Ecology, 2015, 96, 2328-2335.	3.5	111
36	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	108

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37	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.	9.7	107
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.	2.1	105
39	Litter decomposition and nutrient release as affected by soil nitrogen availability and litter quality in a semiarid grassland ecosystem. Oecologia, 2010, 162, 771-780.	2.1	103
40	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.	4.4	101
41	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.	4.1	96
42	Exacerbated nitrogen limitation ends transient stimulation of grassland productivity by increased precipitation. Ecological Monographs, 2017, 87, 457-469.	5.4	96
43	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.	5.8	96
44	Do rhizome severing and shoot defoliation affect clonal growth of Leymus chinensis at ramet population level?. Acta Oecologica, 2004, 26, 255-260.	1.2	95
45	Plants alter their vertical root distribution rather than biomass allocation in response to changing precipitation. Ecology, 2019, 100, e02828.	3.5	93
46	Aerobic Methane Emission from Plants in the Inner Mongolia Steppe. Environmental Science & Technology, 2008, 42, 62-68.	10.5	92
47	Environmental changes affect the assembly of soil bacterial community primarily by mediating stochastic processes. Global Change Biology, 2016, 22, 198-207.	9.7	92
48	The counteractive effects of nitrogen addition and watering on soil bacterial communities in a steppe ecosystem. Soil Biology and Biochemistry, 2014, 72, 26-34.	9.0	91
49	Scale-dependent effects of climate and geographic distance on bacterial diversity patterns across northern China's grasslands. FEMS Microbiology Ecology, 2015, 91, fiv133.	2.8	91
50	Responses of Soil Bacterial Communities to Nitrogen Deposition and Precipitation Increment Are Closely Linked with Aboveground Community Variation. Microbial Ecology, 2016, 71, 974-989.	3.0	91
51	Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. Atmospheric Environment, 2007, 41, 5948-5958.	4.2	89
52	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	89
53	Changes in litter quality induced by N deposition alter soil microbial communities. Soil Biology and Biochemistry, 2019, 130, 33-42.	9.0	87
54	Complementarity in water sources among dominant species in typical steppe ecosystems of Inner Mongolia, China. Plant and Soil, 2011, 340, 303-313.	3.7	86

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55	Nitrogen addition does not reduce the role of spatial asynchrony in stabilising grassland communities. Ecology Letters, 2019, 22, 563-571.	6.7	86
56	Response of the Abundance of Key Soil Microbial Nitrogen-Cycling Genes to Multi-Factorial Global Changes. PLoS ONE, 2013, 8, e76500.	2.5	84
57	Mitigating methane emission from paddy soil with rice-straw biochar amendment under projected climate change. Scientific Reports, 2016, 6, 24731.	3.4	84
58	Nitrogen Addition Regulates Soil Nematode Community Composition through Ammonium Suppression. PLoS ONE, 2012, 7, e43384.	2.5	84
59	Methane emissions from the trunks of living trees on upland soils. New Phytologist, 2016, 211, 429-439.	7.8	83
60	Mechanisms of soil acidification reducing bacterial diversity. Soil Biology and Biochemistry, 2015, 81, 275-281.	9.0	82
61	Predicting plant diversity based on remote sensing products in the semi-arid region of Inner Mongolia. Remote Sensing of Environment, 2008, 112, 2018-2032.	11.1	81
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.	4.2	81
63	Changes in carbon and nitrogen in soil particle-size fractions along a grassland restoration chronosequence in northern China. Geoderma, 2009, 150, 302-308.	5.2	81
64	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	80
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.	1.3	79
66	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.	9.0	79
67	Mowing exacerbates the loss of ecosystem stability under nitrogen enrichment in a temperate grassland. Functional Ecology, 2017, 31, 1637-1646.	3.6	77
68	Climate variability decreases species richness and community stability in a temperate grassland. Oecologia, 2018, 188, 183-192.	2.1	77
69	Cultivation and grazing altered evapotranspiration and dynamics in Inner Mongolia steppes. Agricultural and Forest Meteorology, 2009, 149, 1810-1819.	4.8	75
70	Plant nitrogen uptake drives responses of productivity to nitrogen and water addition in a grassland. Scientific Reports, 2014, 4, 4817.	3.4	73
71	Seeking the flowers for the bees: Integrating biotic interactions into niche models to assess the distribution of the exotic bee species Lithurgus huberi in South America. Ecological Modelling, 2014, 273, 200-209.	2.5	72
72	Plant functional diversity modulates global environmental change effects on grassland productivity. Journal of Ecology, 2018, 106, 1941-1951.	4.1	72

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73	Asymmetry in aboveâ€•and belowground productivity responses to N addition in a semiâ€arid temperate steppe. Global Change Biology, 2019, 25, 2958-2969.	9.7	71
74	Carbon limitation overrides acidification in mediating soil microbial activity to nitrogen enrichment in a temperate grassland. Global Change Biology, 2021, 27, 5976-5988.	9.7	71
75	Soil characteristics and nitrogen resorption in Stipa krylovii native to northern China. Plant and Soil, 2005, 273, 257-268.	3.7	67
76	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
77	Poplar plantation has the potential to alter the water balance in semiarid Inner Mongolia. Journal of Environmental Management, 2009, 90, 2762-2770.	7.9	67
78	Plant nutrients do not covary with soil nutrients under changing climatic conditions. Global Biogeochemical Cycles, 2015, 29, 1298-1308.	4.8	67
79	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.	4.1	66
80	Seasonal variations in nitrogen mineralization under three land use types in a grassland landscape. Acta Oecologica, 2008, 34, 322-330.	1.2	66
81	Effects of Water and Nitrogen Addition on Species Turnover in Temperate Grasslands in Northern China. PLoS ONE, 2012, 7, e39762.	2.5	66
82	Diurnal variation in methane emissions in relation to plants and environmental variables in the Inner Mongolia marshes. Atmospheric Environment, 2005, 39, 6295-6305.	4.2	64
83	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.	4.2	64
84	Retention of deposited ammonium and nitrate and its impact on the global forest carbon sink. Nature Communications, 2022, 13, 880.	13.2	64
85	Hierarchical responses of plant stoichiometry to nitrogen deposition and mowing in a temperate steppe. Plant and Soil, 2014, 382, 175-187.	3.7	63
86	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.	4.1	63
87	Differential responses of canopy nutrients to experimental drought along a natural aridity gradient. Ecology, 2018, 99, 2230-2239.	3.5	63
88	Increasing rates of longâ€term nitrogen deposition consistently increased litter decomposition in a semiâ€arid grassland. New Phytologist, 2021, 229, 296-307.	7.8	63
89	Effects of functional diversity loss on ecosystem functions are influenced by compensation. Ecology, 2016, 97, 2293-2302.	3.5	61
90	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.	2.5	61

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91	Topography and grazing effects on storage of soil organic carbon and nitrogen in the northern China grasslands. Ecological Indicators, 2018, 93, 45-53.	6.4	61
92	Temporal and spatial variability and controls of soil respiration in a temperate steppe in northern China. Global Biogeochemical Cycles, 2010, 24, .	4.8	60
93	Foliar nutrient resorption differs between arbuscular mycorrhizal and ectomycorrhizal trees at local and global scales. Global Ecology and Biogeography, 2018, 27, 875-885.	5.9	60
94	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	60
95	Effects of grassland conversion to croplands on soil organic carbon in the temperate Inner Mongolia. Journal of Environmental Management, 2008, 86, 529-534.	7.9	59
96	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	58
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	58
98	Increase in ammonia volatilization from soil in response to N deposition in Inner Mongolia grasslands. Atmospheric Environment, 2014, 84, 156-162.	4.2	58
99	Changes in specific leaf area of dominant plants in temperate grasslands along a 2500-km transect in northern China. Scientific Reports, 2017, 7, 10780.	3.4	58
100	Testing the Growth Rate Hypothesis in Vascular Plants with Above- and Below-Ground Biomass. PLoS ONE, 2012, 7, e32162.	2.5	58
101	Nitrogen fertilization and fire act independently on foliar stoichiometry in a temperate steppe. Plant and Soil, 2010, 334, 209-219.	3.7	57
102	LIVE AND DEAD ROOTS IN FOREST SOIL HORIZONS:CONTRASTING EFFECTS ON NITROGEN DYNAMICS. Ecology, 1997, 78, 348-362.	3.5	56
103	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	55
104	Effects of experimentally-enhanced precipitation and nitrogen on resistance, recovery and resilience of a semi-arid grassland after drought. Oecologia, 2014, 176, 1187-1197.	2.1	54
105	Nitrogen deposition alters soil chemical properties and bacterial communities in the Inner Mongolia grassland. Journal of Environmental Sciences, 2012, 24, 1483-1491.	6.3	53
106	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	53
107	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.	9.7	53
108	Climate and ecosystem ¹⁵N natural abundance along a transect of Inner Mongolian grasslands: Contrasting regional patterns and global patterns. Global Biogeochemical Cycles, 2009, 23, .	4.8	52

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109	Soil organic and inorganic carbon contents under various land uses across a transect of continental steppes in Inner Mongolia. Catena, 2013, 109, 110-117.	5.1	52
110	Salt tolerance during seed germination and early seedling stages of 12 halophytes. Plant and Soil, 2015, 388, 229-241.	3.7	52
111	Experimental warming reveals positive feedbacks to climate change in the Eurasian Steppe. ISME Journal, 2017, 11, 885-895.	10.0	52
112	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.	9.0	51
113	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	51
114	Patterns of Plant Biomass Allocation in Temperate Grasslands across a 2500-km Transect in Northern China. PLoS ONE, 2013, 8, e71749.	2.5	50
115	Productivity depends more on the rate than the frequency of N addition in a temperate grassland. Scientific Reports, 2015, 5, 12558.	3.4	50
116	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	50
117	Decreased plant productivity resulting from plant group removal experiment constrains soil microbial functional diversity. Global Change Biology, 2017, 23, 4318-4332.	9.7	50
118	Nitrogen enrichment buffers phosphorus limitation by mobilizing mineralâ€bound soil phosphorus in grasslands. Ecology, 2022, 103, e3616.	3.5	50
119	Soil Bacterial Communities Respond to Mowing and Nutrient Addition in a Steppe Ecosystem. PLoS ONE, 2013, 8, e84210.	2.5	49
120	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	48
121	Widespread non-microbial methane production by organic compounds and the impact of environmental stresses. Earth-Science Reviews, 2013, 127, 193-202.	9.4	48
122	Species asynchrony stabilises productivity under extreme drought across Northern China grasslands. Journal of Ecology, 2021, 109, 1665-1675.	4.1	48
123	Nitrogen and water addition reduce leaf longevity of steppe species. Annals of Botany, 2011, 107, 145-155.	2.9	47
124	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	47
125	Nitrogen deposition promotes phosphorus uptake of plants in a semi-arid temperate grassland. Plant and Soil, 2016, 408, 475-484.	3.7	44
126	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.	2.4	43

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127	The Influence of Historical Land Use and Water Availability on Grassland Restoration. Restoration Ecology, 2010, 18, 217-225.	2.7	43
128	Soil gross N ammonification and nitrification from tropical to temperate forests in eastern China. Functional Ecology, 2018, 32, 83-94.	3.6	43
129	Community response of arbuscular mycorrhizal fungi to extreme drought in a coldâ€temperate grassland. New Phytologist, 2022, 234, 2003-2017.	7.8	43
130	Plant responses following grazing removal at different stocking rates in an Inner Mongolia grassland ecosystem. Plant and Soil, 2011, 340, 199-213.	3.7	41
131	Quantitative assessment of bioenergy from crop stalk resources in Inner Mongolia, China. Applied Energy, 2012, 93, 305-318.	10.3	41
132	Arbuscular mycorrhizal fungi regulate soil respiration and its response to precipitation change in a semiarid steppe. Scientific Reports, 2016, 6, 19990.	3.4	41
133	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	41
134	Nonlinear responses of soil nematode community composition to increasing aridity. Global Ecology and Biogeography, 2020, 29, 117-126.	5.9	41
135	Warming and increased precipitation individually influence soil carbon sequestration of Inner Mongolian grasslands, China. Agriculture, Ecosystems and Environment, 2012, 158, 184-191.	5.5	40
136	Plant traits and soil fertility mediate productivity losses under extreme drought in C₃ grasslands. Ecology, 2021, 102, e03465.	3.5	40
137	Lack of Evidence for 3/4 Scaling of Metabolism in Terrestrial Plants. Journal of Integrative Plant Biology, 2005, 47, 1173-1183.	9.2	39
138	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.	1.3	39
139	Divergent Changes in Plant Community Composition under 3-Decade Grazing Exclusion in Continental Steppe. PLoS ONE, 2011, 6, e26506.	2.5	39
140	Nutrient resorption response to fire and nitrogen addition in a semi-arid grassland. Ecological Engineering, 2011, 37, 534-538.	3.7	39
141	Increased precipitation induces a positive plant-soil feedback in a semi-arid grassland. Plant and Soil, 2015, 389, 211-223.	3.7	39
142	Nitrogen deposition mediates the effects and importance of chance in changing biodiversity. Molecular Ecology, 2011, 20, 429-438.	3.6	37
143	Scale dependence of the diversityâ€“stability relationship in a temperate grassland. Journal of Ecology, 2018, 106, 1277-1285.	4.1	37
144	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. Oecologia, 2018, 188, 633-643.	2.1	37

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145	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	36
146	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	35
147	Soil microbial community responses to long-term nitrogen addition at different soil depths in a typical steppe. Applied Soil Ecology, 2021, 167, 104054.	4.4	34
148	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	33
149	Rapid topâ€"down regulation of plant C:N:P stoichiometry by grasshoppers in an Inner Mongolia grassland ecosystem. Oecologia, 2011, 166, 253-264.	2.1	33
150	Testing biodiversity-ecosystem functioning relationship in the worldâ€™s largest grassland: overview of the IMGRE project. Landscape Ecology, 2015, 30, 1723-1736.	4.2	33
151	Effects of irrigation on nitrous oxide, methane and carbon dioxide fluxes in an Inner Mongolian steppe. Advances in Atmospheric Sciences, 2008, 25, 748-756.	4.5	32
152	The Grasslands of Inner Mongolia: A Special Feature. Rangeland Ecology and Management, 2009, 62, 303-304.	2.4	32
153	Carbon and nitrogen storage in plant and soil as related to nitrogen and water amendment in a temperate steppe of northern China. Biology and Fertility of Soils, 2011, 47, 187-196.	4.2	32
154	Intra-seasonal precipitation amount and pattern differentially affect primary production of two dominant species of Inner Mongolia grassland. Acta Oecologica, 2012, 44, 2-10.	1.2	32
155	Thresholds in decoupled soil-plant elements under changing climatic conditions. Plant and Soil, 2016, 409, 159-173.	3.7	32
156	Depth profiles of soil carbon isotopes along a semi-arid grassland transect in northern China. Plant and Soil, 2017, 417, 43-52.	3.7	32
157	Response of fine root decomposition to different forms of N deposition in a temperate grassland. Soil Biology and Biochemistry, 2020, 147, 107845.	9.0	32
158	Grasshoppers Regulate N:P Stoichiometric Homeostasis by Changing Phosphorus Contents in Their Frass. PLoS ONE, 2014, 9, e103697.	2.5	32
159	Foliar Nitrogen Dynamics and Nitrogen Resorption of a Sandy Shrub Salix gordejevii in Northern China. Plant and Soil, 2005, 278, 183-193.	3.7	31
160	China's grazed temperate grasslands are a net source of atmospheric methane. Atmospheric Environment, 2009, 43, 2148-2153.	4.2	31
161	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
162	A threshold reveals decoupled relationship of sulfur with carbon and nitrogen in soils across arid and semi-arid grasslands in northern China. Biogeochemistry, 2016, 127, 141-153.	3.7	31

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163	Largeâ€Scale Distribution of Molecular Components in Chinese Grassland Soils: The Influence of Input and Decomposition Processes. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 239-255.	3.0	31
164	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
165	Growing season methane budget of an Inner Mongolian steppe. Atmospheric Environment, 2009, 43, 3086-3095.	4.2	30
166	Methane emission from small wetlands and implications for semiarid region budgets. Journal of Geophysical Research, 2005, 110, .	3.3	29
167	Effects of grazing exclusion on soil net nitrogen mineralization and nitrogen availability in a temperate steppe in northern China. Journal of Arid Environments, 2010, 74, 1287-1293.	2.5	29
168	Carbon and nitrogen contents in particleâ€"size fractions of topsoil along a 3000â€¯km aridity gradient in grasslands of northern China. Biogeosciences, 2016, 13, 3635-3646.	3.4	29
169	Intensity and frequency of nitrogen addition alter soil chemical properties depending on mowing management in a temperate steppe. Journal of Environmental Management, 2018, 224, 77-86.	7.9	29
170	Distinct Drivers of Core and Accessory Components of Soil Microbial Community Functional Diversity under Environmental Changes. MSystems, 2019, 4, .	4.1	29
171	Hierarchical Plant Responses and Diversity Loss after Nitrogen Addition: Testing Three Functionally-Based Hypotheses in the Inner Mongolia Grassland. PLoS ONE, 2011, 6, e20078.	2.5	28
172	Carbon dioxide emission from temperate semiarid steppe during the non-growing season. Atmospheric Environment, 2013, 64, 141-149.	4.2	28
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