

Yongfei Bai

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

9,423
citations

53660

45
h-index

40881

93
g-index

115
all docs

115
docs citations

115
times ranked

7121
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiversityâ€™productivity relationships in a natural grassland community vary under diversity loss scenarios. <i>Journal of Ecology</i> , 2022, 110, 210-220.	1.9	10
2	Deepened snow cover mitigates soil carbon loss from intensive landâ€™use in a semiâ€™arid temperate grassland. <i>Functional Ecology</i> , 2022, 36, 635-645.	1.7	3
3	Disentangling the effects of nitrogen availability and soil acidification on microbial taxa and soil carbon dynamics in natural grasslands. <i>Soil Biology and Biochemistry</i> , 2022, 164, 108495.	4.2	26
4	Linking leaf traits to the temporal stability of above- and belowground productivity under global change and land use scenarios in a semi-arid grassland of Inner Mongolia. <i>Science of the Total Environment</i> , 2022, 818, 151858.	3.9	9
5	Grazing Intensity Rather than Host Plantâ€™s Palatability Shapes the Community of Arbuscular Mycorrhizal Fungi in a Steppe Grassland. <i>Microbial Ecology</i> , 2022, 84, 1062-1071.	1.4	4
6	Direct and indirect effects of nitrogen enrichment and grazing on grassland productivity through intraspecific trait variability. <i>Journal of Applied Ecology</i> , 2022, 59, 598-610.	1.9	16
7	The global carbon sink potential of terrestrial vegetation can be increased substantially by optimal land management. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	65
8	Contrasting effects of arbuscular mycorrhizal fungi on nitrogen uptake in <i>Leymus chinensis</i> and <i>Cleistogenes squarrosa</i> grasses, dominants of the Inner Mongolian steppe. <i>Plant and Soil</i> , 2022, 475, 395-410.	1.8	10
9	Long-term regional evidence of the effects of livestock grazing on soil microbial community structure and functions in surface and deep soil layers. <i>Soil Biology and Biochemistry</i> , 2022, 168, 108629.	4.2	25
10	How precipitation legacies affect broad-scale patterns of primary productivity: Evidence from the Inner Mongolia grassland. <i>Agricultural and Forest Meteorology</i> , 2022, 320, 108954.	1.9	5
11	Even shortâ€™term revegetation complicates soil food webs and strengthens their links with ecosystem functions. <i>Journal of Applied Ecology</i> , 2022, 59, 1721-1733.	1.9	9
12	The complexity of the bacterial community in response to fertilization determines forage production in a semiarid grassland. <i>Ecological Indicators</i> , 2022, 139, 108918.	2.6	4
13	The loss of plant species diversity dominated by temperature promotes local productivity in the steppe of eastern Inner Mongolia. <i>Ecological Indicators</i> , 2022, 139, 108953.	2.6	5
14	Plant quantity and quality regulate the diversity of arthropod communities in a semiâ€™arid grassland. <i>Functional Ecology</i> , 2021, 35, 601-613.	1.7	4
15	Arbuscular Mycorrhizal Fungi Mediate Grazing Effects on Seasonal Soil Nitrogen Fluxes in a Steppe Ecosystem. <i>Ecosystems</i> , 2021, 24, 1171-1183.	1.6	3
16	Legacy effect of grazing intensity mediates the bottomâ€™up controls of resource addition on soil food webs. <i>Journal of Applied Ecology</i> , 2021, 58, 976-987.	1.9	22
17	Hyperspectral retrieval of leaf physiological traits and their links to ecosystem productivity in grassland monocultures. <i>Ecological Indicators</i> , 2021, 122, 107267.	2.6	17
18	N-enrichment induced biodiversity loss can be explained by reductions in competitive intransitivity: Evidence from a decade-long grassland experiment. <i>Environmental and Experimental Botany</i> , 2021, 184, 104372.	2.0	4

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19	Grazing regime alters plant community structure via patch-scale diversity in semiarid grasslands. <i>Ecosphere</i> , 2021, 12, e03547.	1.0	13
20	Rare soil microbial taxa regulate the negative effects of land degradation drivers on soil organic matter decomposition. <i>Journal of Applied Ecology</i> , 2021, 58, 1658-1669.	1.9	10
21	The Potential of Mapping Grassland Plant Diversity with the Links among Spectral Diversity, Functional Trait Diversity, and Species Diversity. <i>Remote Sensing</i> , 2021, 13, 3034.	1.8	12
22	Grazing simplifies soil micro-food webs and decouples their relationships with ecosystem functions in grasslands. <i>Global Change Biology</i> , 2020, 26, 960-970.	4.2	70
23	Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. <i>Ecology</i> , 2020, 101, e02905.	1.5	40
24	Ecological clusters based on responses of soil microbial phylotypes to precipitation explain ecosystem functions. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107717.	4.2	27
25	Vertical variations in plant- and microbial-derived carbon components in grassland soils. <i>Plant and Soil</i> , 2020, 446, 441-455.	1.8	15
26	Leaching of organic carbon from grassland soils under anaerobiosis. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107684.	4.2	17
27	Root litter diversity and functional identity regulate soil carbon and nitrogen cycling in a typical steppe. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107688.	4.2	12
28	A dataset of plant and microbial community structure after long-term grazing and mowing in a semiarid steppe. <i>Scientific Data</i> , 2020, 7, 403.	2.4	5
29	Nitrogen-induced acidification, not N-nutrient, dominates suppressive N effects on arbuscular mycorrhizal fungi. <i>Global Change Biology</i> , 2020, 26, 6568-6580.	4.2	64
30	Heavy grazing disrupts positive effects of arbuscular mycorrhizae symbiosis on community productivity and stability under low and high phosphorus conditions. <i>Plant and Soil</i> , 2020, 457, 375-387.	1.8	6
31	Soil acidification reduces the effects of short-term nutrient enrichment on plant and soil biota and their interactions in grasslands. <i>Global Change Biology</i> , 2020, 26, 4626-4637.	4.2	43
32	Deepened winter snow cover enhances net ecosystem exchange and stabilizes plant community composition and productivity in a temperate grassland. <i>Global Change Biology</i> , 2020, 26, 3015-3027.	4.2	40
33	Seasonal variation in the response of arbuscular mycorrhizal fungi to grazing intensity. <i>Mycorrhiza</i> , 2020, 30, 635-646.	1.3	5
34	Can more carbon be captured by grasslands? A case study of Inner Mongolia, China. <i>Science of the Total Environment</i> , 2020, 723, 138085.	3.9	19
35	Plants alter their vertical root distribution rather than biomass allocation in response to changing precipitation. <i>Ecology</i> , 2019, 100, e02828.	1.5	86
36	Effects of aridity on soil microbial communities and functions across soil depths on the Mongolian Plateau. <i>Functional Ecology</i> , 2019, 33, 1561-1571.	1.7	49

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37	Distribution of lignin phenols in comparison with plant-derived lipids in the alpine versus temperate grassland soils. <i>Plant and Soil</i> , 2019, 439, 325-338.	1.8	18
38	Distribution and Preservation of Root- and Shoot-Derived Carbon Components in Soils Across the Chinese-Mongolian Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 420-431.	1.3	14
39	Species asynchrony and response diversity determine multifunctional stability of natural grasslands. <i>Journal of Ecology</i> , 2019, 107, 1862-1875.	1.9	51
40	Altered trends in carbon uptake in China's terrestrial ecosystems under the enhanced summer monsoon and warming hiatus. <i>National Science Review</i> , 2019, 6, 505-514.	4.6	93
41	Comparison of leaf area index inversion for grassland vegetation through remotely sensed spectra by unmanned aerial vehicle and field-based spectroradiometer. <i>Journal of Plant Ecology</i> , 2019, 12, 395-408.	1.2	15
42	Direct and indirect effects of nitrogen enrichment on soil organisms and carbon and nitrogen mineralization in a semi-arid grassland. <i>Functional Ecology</i> , 2019, 33, 175-187.	1.7	115
43	The Future of Complementarity: Disentangling Causes from Consequences. <i>Trends in Ecology and Evolution</i> , 2019, 34, 167-180.	4.2	246
44	Patterns of plant carbon, nitrogen, and phosphorus concentration in relation to productivity in China's terrestrial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4033-4038.	3.3	227
45	Carbon pools in China's terrestrial ecosystems: New estimates based on an intensive field survey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4021-4026.	3.3	466
46	Effects of national ecological restoration projects on carbon sequestration in China from 2001 to 2010. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4039-4044.	3.3	486
47	Plant diversity enhances productivity and soil carbon storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4027-4032.	3.3	368
48	Responses of growing-season soil respiration to water and nitrogen addition as affected by grazing intensity. <i>Functional Ecology</i> , 2018, 32, 1890-1901.	1.7	31
49	Long-term effects of grazing and topography on extra-radical hyphae of arbuscular mycorrhizal fungi in semi-arid grasslands. <i>Mycorrhiza</i> , 2018, 28, 117-127.	1.3	26
50	Large-scale Distribution of Molecular Components in Chinese Grassland Soils: The Influence of Input and Decomposition Processes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 239-255.	1.3	29
51	Mowing and topography effects on microorganisms and nitrogen transformation processes responsible for nitrous oxide emissions in semi-arid grassland of Inner Mongolia. <i>Journal of Soils and Sediments</i> , 2018, 18, 929-935.	1.5	8
52	Livestock grazing regulates ecosystem multifunctionality in semi-arid grassland. <i>Functional Ecology</i> , 2018, 32, 2790-2800.	1.7	62
53	Reconciling multiple impacts of nitrogen enrichment on soil carbon: plant, microbial and geochemical controls. <i>Ecology Letters</i> , 2018, 21, 1162-1173.	3.0	154
54	Climate variability decreases species richness and community stability in a temperate grassland. <i>Oecologia</i> , 2018, 188, 183-192.	0.9	74

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55	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. <i>Oecologia</i> , 2018, 188, 633-643.	0.9	35
56	Wind erosion enhanced by land use changes significantly reduces ecosystem carbon storage and carbon sequestration potentials in semiarid grasslands. <i>Land Degradation and Development</i> , 2018, 29, 3469-3478.	1.8	34
57	Trend Analysis of Relationship between Primary Productivity, Precipitation and Temperature in Inner Mongolia. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 214.	1.4	10
58	Divergent accumulation of microbial necromass and plant lignin components in grassland soils. <i>Nature Communications</i> , 2018, 9, 3480.	5.8	192
59	Differential responses of soil bacterial communities to long-term N and P inputs in a semi-arid steppe. <i>Geoderma</i> , 2017, 292, 25-33.	2.3	174
60	Asymmetric sensitivity of ecosystem carbon and water processes in response to precipitation change in a semi-arid steppe. <i>Functional Ecology</i> , 2017, 31, 1301-1311.	1.7	84
61	Quantifying Grazing Intensity in China Using High Temporal Resolution MODIS Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 515-523.	2.3	8
62	Effects of grazing on spatiotemporal variations in community structure and ecosystem function on the grasslands of Inner Mongolia, China. <i>Scientific Reports</i> , 2017, 7, 40.	1.6	44
63	Two ultraviolet radiation datasets that cover China. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 805-815.	1.9	20
64	Grassland Carbon Budget and Its Driving Factors of the Subtropical and Tropical Monsoon Region in China During 1961 to 2013. <i>Scientific Reports</i> , 2017, 7, 14717.	1.6	14
65	Assessing the impacts of human activities and climate variations on grassland productivity by partial least squares structural equation modeling (PLS-SEM). <i>Journal of Arid Land</i> , 2017, 9, 473-488.	0.9	22
66	Patterns and thresholds of grazing-induced changes in community structure and ecosystem functioning: species-level responses and the critical role of species traits. <i>Journal of Applied Ecology</i> , 2017, 54, 963-975.	1.9	81
67	Soil acidification exerts a greater control on soil respiration than soil nitrogen availability in grasslands subjected to long-term nitrogen enrichment. <i>Functional Ecology</i> , 2016, 30, 658-669.	1.7	156
68	Effect of diversity on biomass across grasslands on the Mongolian Plateau: contrasting effects between plants and soil nematodes. <i>Journal of Biogeography</i> , 2016, 43, 955-966.	1.4	27
69	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.	1.7	75
70	Effects of functional diversity loss on ecosystem functions are influenced by compensation. <i>Ecology</i> , 2016, 97, 2293-2302.	1.5	56
71	Effects of plant functional group loss on soil biota and net ecosystem exchange: a plant removal experiment in the Mongolian grassland. <i>Journal of Ecology</i> , 2016, 104, 734-743.	1.9	58
72	Spatio-temporal patterns of satellite-derived grassland vegetation phenology from 1998 to 2012 in Inner Mongolia, China. <i>Journal of Arid Land</i> , 2016, 8, 462-477.	0.9	28

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73	Effects of grazing and climate variability on grassland ecosystem functions in Inner Mongolia: Synthesis of a 6-year grazing experiment. <i>Journal of Arid Environments</i> , 2016, 135, 50-63.	1.2	56
74	Spatiotemporal dynamic simulation of grassland carbon storage in China. <i>Science China Earth Sciences</i> , 2016, 59, 1946-1958.	2.3	35
75	Functional correlations between specific leaf area and specific root length along a regional environmental gradient in Inner Mongolia grasslands. <i>Functional Ecology</i> , 2016, 30, 985-997.	1.7	83
76	Strategies to alleviate poverty and grassland degradation in Inner Mongolia: Intensification vs production efficiency of livestock systems. <i>Journal of Environmental Management</i> , 2015, 152, 177-182.	3.8	106
77	Sheep manure application increases soil exchangeable base cations in a semi-arid steppe of Inner Mongolia. <i>Journal of Arid Land</i> , 2015, 7, 361-369.	0.9	19
78	Spatial patterns of soil nutrients, plant diversity, and aboveground biomass in the Inner Mongolia grassland: before and after a biodiversity removal experiment. <i>Landscape Ecology</i> , 2015, 30, 1737-1750.	1.9	19
79	Testing biodiversity-ecosystem functioning relationship in the world's largest grassland: overview of the IMGRE project. <i>Landscape Ecology</i> , 2015, 30, 1723-1736.	1.9	30
80	Effects of nitrogen enrichment on belowground communities in grassland: Relative role of soil nitrogen availability vs. soil acidification. <i>Soil Biology and Biochemistry</i> , 2015, 89, 99-108.	4.2	188
81	Scale-dependent patterns and mechanisms of grazing-induced biodiversity loss: evidence from a field manipulation experiment in semiarid steppe. <i>Landscape Ecology</i> , 2015, 30, 1751-1765.	1.9	26
82	Testing the scaling effects and mechanisms of N-induced biodiversity loss: evidence from a decade-long grassland experiment. <i>Journal of Ecology</i> , 2015, 103, 750-760.	1.9	21
83	Regional-scale patterns of soil microbes and nematodes across grasslands on the Mongolian plateau: relationships with climate, soil, and plants. <i>Ecography</i> , 2015, 38, 622-631.	2.1	68
84	Towards a better understanding of landscape patterns and ecosystem processes of the Mongolian Plateau. <i>Landscape Ecology</i> , 2015, 30, 1573-1578.	1.9	39
85	Selective grazing and seasonal precipitation play key roles in shaping plant community structure of semi-arid grasslands. <i>Landscape Ecology</i> , 2015, 30, 1767-1782.	1.9	56
86	Patterns and drivers of soil microbial communities along a precipitation gradient on the Mongolian Plateau. <i>Landscape Ecology</i> , 2015, 30, 1669-1682.	1.9	108
87	Predominant control of moisture on soil organic carbon mineralization across a broad range of arid and semiarid ecosystems on the Mongolia plateau. <i>Landscape Ecology</i> , 2015, 30, 1683-1699.	1.9	26
88	Climate and native grassland vegetation as drivers of the community structures of shrub-encroached grasslands in Inner Mongolia, China. <i>Landscape Ecology</i> , 2015, 30, 1627-1641.	1.9	71
89	Investigating the spectral and ecological characteristics of grassland communities across an ecological gradient of the Inner Mongolian grasslands with in situ hyperspectral data. <i>International Journal of Remote Sensing</i> , 2014, 35, 7179-7198.	1.3	8
90	Evidence that acidification-induced declines in plant diversity and productivity are mediated by changes in belowground communities and soil properties in a semi-arid steppe. <i>Journal of Ecology</i> , 2013, 101, 1322-1334.	1.9	201

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91	Mapping grassland vegetation cover based on Support Vector Machine and association rules. , 2013, , .		1
92	Vertebrate herbivore-induced changes in plants and soils: linkages to ecosystem functioning in a semi-arid steppe. <i>Functional Ecology</i> , 2013, 27, 273-281.	1.7	74
93	Testing mechanisms of N-enrichment-induced species loss in a semiarid Inner Mongolia grassland: critical thresholds and implications for long-term ecosystem responses. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3125-3134.	1.8	83
94	Grazing alters ecosystem functioning and C:N:P stoichiometry of grasslands along a regional precipitation gradient. <i>Journal of Applied Ecology</i> , 2012, 49, 1204-1215.	1.9	271
95	Hierarchical Plant Responses and Diversity Loss after Nitrogen Addition: Testing Three Functionally-Based Hypotheses in the Inner Mongolia Grassland. <i>PLoS ONE</i> , 2011, 6, e20078.	1.1	27
96	Can plant litter affect net primary production of a typical steppe in Inner Mongolia?. <i>Journal of Vegetation Science</i> , 2011, 22, 367-376.	1.1	34
97	Seasonally dependent impacts of grazing on soil nitrogen mineralization and linkages to ecosystem functioning in Inner Mongolia grassland. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1943-1954.	4.2	92
98	Complementarity in water sources among dominant species in typical steppe ecosystems of Inner Mongolia, China. <i>Plant and Soil</i> , 2011, 340, 303-313.	1.8	84
99	Grassland responses to grazing: effects of grazing intensity and management system in an Inner Mongolian steppe ecosystem. <i>Plant and Soil</i> , 2011, 340, 103-115.	1.8	272
100	Differential responses of plant functional trait to grazing between two contrasting dominant C3 and C4 species in a typical steppe of Inner Mongolia, China. <i>Plant and Soil</i> , 2011, 340, 141-155.	1.8	89
101	15N fractionation between vegetation, soil, faeces and wool is not influenced by stocking rate. <i>Plant and Soil</i> , 2011, 340, 25-33.	1.8	18
102	Plant responses following grazing removal at different stocking rates in an Inner Mongolia grassland ecosystem. <i>Plant and Soil</i> , 2011, 340, 199-213.	1.8	40
103	Effects of grazing management system on plant community structure and functioning in a semiarid steppe: scaling from species to community. <i>Plant and Soil</i> , 2011, 340, 215-226.	1.8	60
104	Tradeoffs and thresholds in the effects of nitrogen addition on biodiversity and ecosystem functioning: evidence from inner Mongolia Grasslands. <i>Global Change Biology</i> , 2010, 16, 358-372.	4.2	680
105	Changes in the abundance of C3/C4 species of Inner Mongolia grassland: evidence from isotopic composition of soil and vegetation. <i>Global Change Biology</i> , 2010, 16, 605-616.	4.2	88
106	Tradeoffs and thresholds in the effects of nitrogen addition on biodiversity and ecosystem functioning: evidence from inner Mongolia Grasslands. <i>Global Change Biology</i> , 2010, 16, 889-889.	4.2	22
107	Linking stoichiometric homeostasis with ecosystem structure, functioning, and stability. <i>Nature Precedings</i> , 2010, , .	0.1	4
108	PRIMARY PRODUCTION AND RAIN USE EFFICIENCY ACROSS A PRECIPITATION GRADIENT ON THE MONGOLIA PLATEAU. <i>Ecology</i> , 2008, 89, 2140-2153.	1.5	593

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109	Positive linear relationship between productivity and diversity: evidence from the Eurasian Steppe. <i>Journal of Applied Ecology</i> , 2007, 44, 1023-1034.	1.9	217
110	Ecological analysis of an emerging urban landscape pattern in the Beijing-Tianjin-Hebei region: a case study in Suzhou, China. <i>Landscape Ecology</i> , 2006, 21, 1297-1309.	1.9	81
111	Ecosystem stability in Inner Mongolia (reply). <i>Nature</i> , 2005, 435, E6-E7.	13.7	6
112	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. <i>Ecological Research</i> , 2005, 20, 167-176.	0.7	39
113	Ecosystem stability and compensatory effects in the Inner Mongolia grassland. <i>Nature</i> , 2004, 431, 181-184.	13.7	1,011
114	Climate and anthropogenic drivers of changes in abundance of C4 annuals and perennials in grasslands on the Mongolian Plateau. <i>Journal of Applied Ecology</i> , 2007, 44, 1023-1034.		2