

Qiang Yu

List of Publications by Citations

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77
papers

2,518
citations

29
h-index

49
g-index

86
ext. papers

3,382
ext. citations

5.5
avg, IF

4.74
L-index

#	Paper	IF	Citations
77	Linking stoichiometric homeostasis with ecosystem structure, functioning and stability. <i>Ecology Letters</i> , 2010 , 13, 1390-9	10	202
76	Nitrogen deposition weakens plant-microbe interactions in grassland ecosystems. <i>Global Change Biology</i> , 2013 , 19, 3688-97	11.4	157
75	Carbon and nitrogen store and storage potential as affected by land-use in a <i>Leymus chinensis</i> grassland of northern China. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 2952-2959	7.5	132
74	Convergent responses of nitrogen and phosphorus resorption to nitrogen inputs in a semiarid grassland. <i>Global Change Biology</i> , 2013 , 19, 2775-84	11.4	129
73	Stoichiometric homeostasis of vascular plants in the Inner Mongolia grassland. <i>Oecologia</i> , 2011 , 166, 1-10	2.9	128
72	A novel soil manganese mechanism drives plant species loss with increased nitrogen deposition in a temperate steppe. <i>Ecology</i> , 2016 , 97, 65-74	4.6	103
71	C:N:P stoichiometry in China's forests: From organs to ecosystems. <i>Functional Ecology</i> , 2018 , 32, 50-60	5.6	98
70	Rapid plant species loss at high rates and at low frequency of N addition in temperate steppe. <i>Global Change Biology</i> , 2014 , 20, 3520-9	11.4	88
69	Environmental changes drive the temporal stability of semi-arid natural grasslands through altering species asynchrony. <i>Journal of Ecology</i> , 2015 , 103, 1308-1316	6	87
68	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1925-1932	12.3	77
67	Asynchrony among local communities stabilises ecosystem function of metacommunities. <i>Ecology Letters</i> , 2017 , 20, 1534-1545	10	72
66	Global change effects on plant communities are magnified by time and the number of global change factors imposed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17867-17873	11.5	69
65	Stoichiometric homeostasis predicts plant species dominance, temporal stability, and responses to global change. <i>Ecology</i> , 2015 , 96, 2328-35	4.6	65
64	Ecosystem Traits Linking Functional Traits to Macroecology. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 200-210	10.9	64
63	Imbalanced atmospheric nitrogen and phosphorus depositions in China: Implications for nutrient limitation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1605-1616	3.7	63
62	Methane emissions from the trunks of living trees on upland soils. <i>New Phytologist</i> , 2016 , 211, 429-39	9.8	57
61	Underappreciated problems of low replication in ecological field studies. <i>Ecology</i> , 2016 , 97, 2554-2561	4.6	56

60	Nitrogen addition regulates soil nematode community composition through ammonium suppression. <i>PLoS ONE</i> , 2012 , 7, e43384	3.7	55
59	Testing the growth rate hypothesis in vascular plants with above- and below-ground biomass. <i>PLoS ONE</i> , 2012 , 7, e32162	3.7	49
58	Grazing intensity impacts soil carbon and nitrogen storage of continental steppe. <i>Ecosphere</i> , 2011 , 2, art8	3.1	45
57	Variation in leaf anatomical traits from tropical to cold-temperate forests and linkage to ecosystem functions. <i>Functional Ecology</i> , 2018 , 32, 10-19	5.6	44
56	Sampling date, leaf age and root size: implications for the study of plant C:N:p stoichiometry. <i>PLoS ONE</i> , 2013 , 8, e60360	3.7	42
55	Labile organic C and N mineralization of soil aggregate size classes in semiarid grasslands as affected by grazing management. <i>Biology and Fertility of Soils</i> , 2012 , 48, 305-313	6.1	39
54	Soil organic and inorganic carbon contents under various land uses across a transect of continental steppes in Inner Mongolia. <i>Catena</i> , 2013 , 109, 110-117	5.8	38
53	Plant Trait Networks: Improved Resolution of the Dimensionality of Adaptation. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 908-918	10.9	37
52	Soil microbial respiration rate and temperature sensitivity along a north-south forest transect in eastern China: Patterns and influencing factors. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 399-410	3.7	34
51	Nutrient resorption helps drive intra-specific coupling of foliar nitrogen and phosphorus under nutrient-enriched conditions. <i>Plant and Soil</i> , 2016 , 398, 111-120	4.2	33
50	Differential responses of canopy nutrients to experimental drought along a natural aridity gradient. <i>Ecology</i> , 2018 , 99, 2230-2239	4.6	32
49	China's grazed temperate grasslands are a net source of atmospheric methane. <i>Atmospheric Environment</i> , 2009 , 43, 2148-2153	5.3	30
48	Allocation strategies for nitrogen and phosphorus in forest plants. <i>Oikos</i> , 2018 , 127, 1506-1514	4	27
47	Divergent Effects of Nitrogen Addition on Soil Respiration in a Semiarid Grassland. <i>Scientific Reports</i> , 2016 , 6, 33541	4.9	27
46	Nitrogen deposition promotes phosphorus uptake of plants in a semi-arid temperate grassland. <i>Plant and Soil</i> , 2016 , 408, 475-484	4.2	25
45	Effects of extreme drought on plant nutrient uptake and resorption in rhizomatous vs bunchgrass-dominated grasslands. <i>Oecologia</i> , 2018 , 188, 633-643	2.9	25
44	Grasshoppers regulate N:p stoichiometric homeostasis by changing phosphorus contents in their frass. <i>PLoS ONE</i> , 2014 , 9, e103697	3.7	25
43	Response of plant functional traits of <i>Leymus chinensis</i> to extreme drought in Inner Mongolia grasslands. <i>Plant Ecology</i> , 2019 , 220, 141-149	1.7	20

42	Enhancement of carbon sequestration in soil in the temperate grasslands of northern China by addition of nitrogen and phosphorus. <i>PLoS ONE</i> , 2013 , 8, e77241	3.7	18
41	Elevated ozone effects on soil nitrogen cycling differ among wheat cultivars. <i>Applied Soil Ecology</i> , 2016 , 108, 187-194	5	17
40	Responses of soil enzyme activity and microbial community compositions to nitrogen addition in bulk and microaggregate soil in the temperate steppe of Inner Mongolia. <i>Eurasian Soil Science</i> , 2016 , 49, 1149-1160	1.5	14
39	Mass ratio effects underlie ecosystem responses to environmental change. <i>Journal of Ecology</i> , 2020 , 108, 855-864	6	14
38	Contrasting effects of plant inter- and intraspecific variation on community trait responses to restoration of a sandy grassland ecosystem. <i>Ecology and Evolution</i> , 2017 , 7, 1125-1134	2.8	13
37	Effects of grazing on the acquisition of nitrogen by plants and microorganisms in an alpine grassland on the Tibetan plateau. <i>Plant and Soil</i> , 2017 , 416, 297-308	4.2	13
36	Long term experimental drought alters community plant trait variation, not trait means, across three semiarid grasslands. <i>Plant and Soil</i> , 2019 , 442, 343-353	4.2	13
35	Species asynchrony stabilises productivity under extreme drought across Northern China grasslands. <i>Journal of Ecology</i> , 2021 , 109, 1665-1675	6	13
34	Facilitation by leguminous shrubs increases along a precipitation gradient. <i>Functional Ecology</i> , 2018 , 32, 203-213	5.6	12
33	Impacts of leguminous shrub encroachment on neighboring grasses include transfer of fixed nitrogen. <i>Oecologia</i> , 2016 , 180, 1213-22	2.9	12
32	Responses of soil hydrolytic enzymes, ammonia-oxidizing bacteria and archaea to nitrogen applications in a temperate grassland in Inner Mongolia. <i>Scientific Reports</i> , 2016 , 6, 32791	4.9	10
31	Structural and chemical differences between shoot- and root-derived roots of three perennial grasses in a typical steppe in Inner Mongolia China. <i>Plant and Soil</i> , 2010 , 336, 209-217	4.2	10
30	Distinct Drivers of Core and Accessory Components of Soil Microbial Community Functional Diversity under Environmental Changes. <i>MSystems</i> , 2019 , 4,	7.6	8
29	Long term prevention of disturbance induces the collapse of a dominant species without altering ecosystem function. <i>Scientific Reports</i> , 2015 , 5, 14320	4.9	8
28	Germination shifts of C3 and C4 species under simulated global warming scenario. <i>PLoS ONE</i> , 2014 , 9, e105139	3.7	8
27	Is a drought a drought in grasslands? Productivity responses to different types of drought. <i>Oecologia</i> , 2021 , 197, 1017-1026	2.9	8
26	Plant traits and soil fertility mediate productivity losses under extreme drought in C grasslands. <i>Ecology</i> , 2021 , 102, e03465	4.6	7
25	Grazing Affects the Ecological Stoichiometry of the Plant-Soil-Microbe System on the Hulunber Steppe, China. <i>Sustainability</i> , 2019 , 11, 5226	3.6	6

24	Decoupling of plant and soil metal nutrients as affected by nitrogen addition in a meadow steppe. <i>Plant and Soil</i> , 2019 , 443, 337-351	4.2	6
23	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. <i>Oecologia</i> , 2020 , 194, 735-744	2.9	5
22	Sediment addition and legume cultivation result in sustainable, long-term increases in ecosystem functions of sandy grasslands. <i>Land Degradation and Development</i> , 2019 , 30, 1667-1676	4.4	4
21	Resistance of steppe communities to extreme drought in northeast China. <i>Plant and Soil</i> , 2020 , 1	4.2	4
20	Determination of leaf carbon isotope discrimination in C4 plants under variable N and water supply. <i>Scientific Reports</i> , 2017 , 7, 351	4.9	3
19	Resistance and resilience of a semi-arid grassland to multi-year extreme drought. <i>Ecological Indicators</i> , 2021 , 131, 108139	5.8	3
18	Chronic and intense droughts differentially influence grassland carbon-nutrient dynamics along a natural aridity gradient. <i>Plant and Soil</i> , 1	4.2	2
17	Drought of early time in growing season decreases community aboveground biomass, but increases belowground biomass in a desert steppe. <i>Bmc Ecology and Evolution</i> , 2021 , 21, 106	2.1	2
16	Impacts of climate change on suitability zonation for potato cultivation in Jilin Province, Northeast China. <i>Scientific Reports</i> , 2021 , 11, 13103	4.9	2
15	Community response of arbuscular mycorrhizal fungi to extreme drought in a cold-temperate grassland. <i>New Phytologist</i> , 2021 ,	9.8	2
14	Direct and indirect effects of precipitation change and nutrients addition on desert steppe productivity in Inner Mongolia, northern China. <i>Plant and Soil</i> , 2022 , 471, 527	4.2	1
13	Differential responses of grassland community nonstructural carbohydrate to experimental drought along a natural aridity gradient.. <i>Science of the Total Environment</i> , 2022 , 153589	10.2	1
12	Functional diversity response to geographic and experimental precipitation gradients varies with plant community type. <i>Functional Ecology</i> , 2021 , 35, 2119-2132	5.6	1
11	Temperature patterns of soil carbon: nitrogen: phosphorus stoichiometry along the 400 mm isohyet in China. <i>Catena</i> , 2021 , 203, 105338	5.8	1
10	Changes in species abundances with short-term and long-term nitrogen addition are mediated by stoichiometric homeostasis. <i>Plant and Soil</i> , 1	4.2	1
9	Contrasting responses of plant above and belowground biomass carbon pools to extreme drought in six grasslands spanning an aridity gradient. <i>Plant and Soil</i> , 1	4.2	1
8	Responses of ecosystem respiration, methane uptake and nitrous oxide emission to drought in a temperate desert steppe. <i>Plant and Soil</i> , 2021 , 469, 409	4.2	0
7	Mowing increased plant diversity but not soil microbial biomass under N-enriched environment in a temperate grassland. <i>Plant and Soil</i> , 1	4.2	0

6	Legacy effects of a multi-year extreme drought on belowground bud banks in rhizomatous vs bunchgrass-dominated grasslands.. <i>Oecologia</i> , 2022 , 198, 763	2.9	○
5	Contrasting effects of plant inter- and intraspecific variation on community trait responses to nitrogen addition and drought in typical and meadow steppes.. <i>BMC Plant Biology</i> , 2022 , 22, 90	5.3	○
4	Global patterns and drivers of soil nematodes in response to nitrogen enrichment. <i>Catena</i> , 2022 , 213, 106235	5.8	○
3	Contrasting community responses of root and soil dwelling fungi to extreme drought in a temperate grassland. <i>Soil Biology and Biochemistry</i> , 2022 , 169, 108670	7.5	○
2	Soil organic carbon turnover recovers faster than plant diversity in the grassland when high nitrogen addition is ceased: Derived from soil 14C evidences. <i>Global Ecology and Conservation</i> , 2020 , 24, e01229	2.8	○
1	Herbivores alleviate the negative effects of extreme drought on plant community by enhancing dominant species. <i>Journal of Plant Ecology</i> , 2021 , 14, 1030-1036	1.7	○